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FIGURE 2061

MIKGVTLGFHYKMRSVYAHFPINVVIQENGLVEIRNFLGKKYIRRVWMRAGVVCSVSQAQKDELILEGNDIELV
SNSAALIQQATTVKKKDIREFLDGIYVSEKGTGQQADE

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FIGURE 2062

GCTGTCGGTCCACGCCGCCGCTCGCGCTGCCCCGCCGCTCGGCGTCGGCCGCCGCCATGGGAGTGCACGTGGAAA
CCATCTCCCCAGGAGACTGGCGCACCTTCCCGAAGCGCAGCCAGACCTGCGTGATGCACTACACCGGGATGCTTG
AAGATGGAAAGAAATTTGATTCTCCCGGGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGA
TCCGAGGCTGGGAAGAAGGGGTTGTCCAGATGAGTGTGGGTCAGAGAGCCAACTGACTATATCTCCAGATTATG
CCTATGGTGCCACTGGGCACCCAGGCATCATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAAC
TGGAATGACAGGAATGGCCTCCTCCCTTAGCTCCCTGTTCTTGGATCTGCCATGGAGGGATCTGGTGCCTCCAGA
CGTGTGCACATAAATCCATATGGAGCTTTTCCTGATGTTCCACTCCACTTTGTATAGACATCTGCCCCAACTGAA
TTATTCTCCAAGTTGAGAGATGTCCTTGGGTTAAATTAAAGCCCTACCTAAACTGAGGTGGGGATGGGGAGAG
GCTTTGCC

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FIGURE 2063

MGVHVETISPGDWRTFFPKRSQTCVMHYTGMLDGGKKFDSSDRNKPFFMLGKQEVIRGWEEGVVQMSVGQRAKL
TISPDYAYGATGHFGIIPPHATLVFDVELLKLE

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FIGURE 2064

CGCCTTGGCCATTGTCAGCCACACAACCCAGGACCTCCAATGGGGACGCCCACTGAGGATCCTAGTGGTTGCTC
TTTTCTTGTCTCTTTCTTTCCCCCAGTCTTTCCTTGTCTATCATGGGCAATTTCCCGCCTTCCATCCCTCTT
TCTTCTGTCTGGCTTGTGTCTCAGAAACCTCAAACCTCTTACCTTGCACCCAATCTAAAGGCTAAACGTCTAA
TTTTTTTCTGTAACACGTCTGGCCCCAGTATAAATTAGAAAATGGCGCTCAGTGGCCAGAAAACAGCACTTCCA
ATTTCTCTATTTTGTGGGACTTAGACAACTTCTATGGAAAAATGGGCAATGGGTCTGAGGTACCCTACTTCCAG
GCATTTTTTACATACGATCTCTCCCTAGCCTATGCTTCCAATGTAATCCATCCCCAATTTTCCTTATTTCCCTTC
TGTCTACCCCTCCTTCTTCCACTGGCGATGCTGACTCCTCTTGTCTGTTGACCCCTCCGATCTTCTCCCCAC
CACCTATCCGAACCTGCTTCTAATTCTCCCCCAGAACCTATTTCTACCCACAATCCACCCTCTTATGCCCTCCC
ATTACCACCTTCTCTACATCCTCTATGGCTTACAGTTTGGGCCTGCGACCAACCCCCAGGCCCTGCCTAGCAA
TTTCCCTCGGAGAGGTGGCAGGAACCAAAGGAATAGTTCGGGTTCAGGTCCCTTTCTCCCTGTTTCGACCTTTCC
CAAATTAGTGAACATCTAGGCTCTTTCCCATCTGACCCACCAAATATATACGAGAATTCCAATACTTAACCCAG
TCCTATAATCTTACTTGAATGACTTAAATGTCATCCTTACCTCTACCCTCGCTCCTGAGGAGTGAGAGTGGGT
TGGATCCTAGCTCAATCTTAGGCTGATAACCGCCGGTGCCGTAAGCCTGGCCTCCAGTAAGGTGCTAGGGCAGTA
CCCTGTGAAGACCCCGATGGACTTACCAGGCCCTGGGACCCATGCATAGCCAGGCGGGACTACATGATCTCTTG
CCTAGTTAAAGGGCTTCAGAAGGCTGCATATAAAGCCGTCGAATTATGACAACTAAAAACAAAAACAAAAACAA
AAAAAACCACTCAGAACAAAGATAAAAAATCCAGCTCAGTTTATGGCCTGTCTACCTGCCACCCTCAGGCGATATA
CAGCACTAGACCCTGAAGGGATAGAAGGCCGCTTATTCTTAACATGCATTTTATTACCCAGTCAGTTTCTGACA
GTAGAAAGAACTTCAAAAATTAGAGTCTGGCTCTCAGATCCCACAACAGGAATTAATCAACCTCGCCTTCAAGG
TGTTCAATAATAGGGAAGAGACTGCCCGGCGACAGCGCATTTTCAAGCACTACAGATGCTTGCCTCCGCCATAAGAC
AAACCCAGCTGCACTGCCTACCTGCAAGAACTTCAAGGCATCTAAACGCAACATCCAACAGCCCCTCTGGGACT
TTGCTTCAAGCGATGAAAACCTGGCCACTGGGCAAGGAATGCCTGCAGCCTGGGATTCTCTAAGCCATGCCCC
GCCTGTGCGTCCCTCACTGGAAGTCTGACTGCCCCGACTCTCATCGCCACTTCCGGAGCTCCTGGAGCTCAAACCC
AAAGCTCCCCACCGACTCCTTCCCAGATCTCCTCGGCTTGGCGGCTGAAGACTGACGCTGCCCGAACGTCTCGGA
GGCCCCTTAGACAATCGCGGATGCCGAGCTTCGGGTAACCTTAGGGTGGAGGCATAAAAAGACAGGAATGTAAG
GTCTCTGAGCAGGCGGCGCCATGGTCAAGCCATCGTGACCCTGTGACTCACACGTACACATCCAGAAGGTCTC
CTGGAGCCAGAAAGTCTGGGACGACAGGAAAACCAAAAAGAAGAAAA

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FIGURE 2065

GGGCCTGGACGCTTTGGCAACCGCTACTCCCGGGGGTGCTTTTTCTGCAGGGACGAAGTGCCACCTATGCTAGTG
GCGGGTCTGGAAGCCTAGAGGGGAACCAGGCTGCAGAGCCGGGCCAAGGGATTAGCGGCGGGCGGGCGGCATGGC
CTGGACTGCGCGGGACCGCGGGGCCCTGGGGCTGCTGCTGTTGGGGCTCTGCTTGTGCGCGGGCTCAAAGAGGTCC
CCCGGGTGAGCAGGGTCTCTCCCGGGCCTCCGGGGCCCCCTGGAGTTCCAGGCATCGATGGCATCGACGGTGACCG
AGGTCTTAAGGGCCCCCGGGCCCCCGGGTCTGCAGGTGAACCGGGAAAGCCAGGAGCTCCAGGCAAGCCTGG
CACACCTGGCGCTGATGGATTAACAGGACCTGATGGATCCCTGGCTCCATTGGGTCAAAGGGACAAAAAGGAGA
ACCTGGTGTGCTGATCGCTGGATTTCCAGGCCGTGGTATTCTGGACCCCCCTGGTCTCTGGGACAGCAGG
ACTCCCTGGAGAGCTTGGCCGTGTAGGACCTGTTGGTGACCCTGGGAGAAGAGGACCACCTGGCCCCCTGGCCC
CCCAGGACCCAGAGGAACAATTGGCTTTTCATGATGGAGATCCATTGTGTCCCAATGCCTGTCCACCAGGTGCTC
AGGATATCCAGGCCTACCAGGCATGAGGGGTCTAAAGGGGCTAAAGGAGAAATTGGTGAACCAGGAAGACAAGG
ACACAAGGGTGAAGAAGGTGACCAGGGAGAACTCGGAGAAGTTGGAGCTCAAGGACCTCCAGGAGCCCAGGGTTT
GCGAGGCATCACCGGCATAGTTGGGGACAAAGGGGAAAAAGGTGCTCGGGGCTTAGATGGTGAACCTGGGCCTCA
GGGTCTTCTGGTGCACCTGGTGATCAAGGACAGCGAGGACCTCCAGGAGAAGCAGGTCCCAAAGGAGATAGAGG
GGCTGAAGGTGCTAGAGGAATTCCTGGTCTCCCTGGGCCCAAAGGAGACACGGGTTTGCCAGGTGTGGATGGCCG
TGATGGGATCCCTGGAATGCCTGGAACAAAGGGTGAACCAGGAAAACCTGGGCCCTCTGGTGTATGCAGGATTGCA
GGGGTTACCAGGTGTACCTGGAATTCCTGGTGCAAAGGGTGTGTGCTGGTGAAGGGTAGCACAGGTGCTCCAGG
GAAGCCTGGTCAGATGGGAAATTCAGGCAAACCGGGCCAACAGGGGCCTCCAGGAGAGGTGGGACCCCGAGGACC
CCAGGGGCTTCTGGCAGTAGAGGAGAATTAGGACCAGTGGGATCCCCAGGCCTACCAGGTAAACTGGGTTCTCT
GGGTAGCCCTGGCCTCCCTGGCTTGCTGGGCCCCCTGGACTTCTTGAATGAAAGGTGACAGGGGTGTAGTCGG
TGAACCGGGTCCAAAGGGTGAACAGGGTGCTCTGGTGAAGAAGGTGAAGCAGGAGAAAGGGGGAACTTGGAGA
TATAGGATTACCTGGCCCAAAGGGATCTGCAGGTAATCCTGGGGAACCTGGCTTGAGAGGGCCTGAGGGAAGTCG
GGGGCTTCTGGAGTGGAAGGACCAAGAGGACCACCTGGACCCCGGGGTGTGCAGGGAGAACAGGGTGCCACCGG
CCTGCCTGGTGTCCAGGGCCCTCCGGGTAGAGCACCGACAGATCAGCACATTAAGCAGGTTTGCATGAGAGTCAT
ACAAGAACATTTGCTGAGATGGCTGCCAGTCTTAAGCGTCCAGACTCAGGTGCCACTGGGCTTCTGGAAGGCC
TGGCCCTCCTGGTCCCCCGGCCCTCCTGGAGAGAATGGTTTCCAGGCCAGATGGGAATTCGTGGCCTTCCGGG
CATTAAAGGGGCCCCCTGGTGTCTTGGTTTGAGGGGACCTAAAGGTGACTTGGGAGAAAAGGGGGAGCGTGGCCC
TCCAGGAAGAGGTCCCAACGGTTTGCTGGAGCTATAGGTCTCCAGGTGACCCAGGCCCTGCCAGCTATGGCAG
AAATGGCCGAGACGGTGAGCGAGGCCCCCAGGGGTGGCAGGAATTCCTGGAGTGCCTGGACCCCGGGACCTCC
TGGGCTTCCCGGTTTCTGTGAGCCAGCCTCCTGCACCATGCAGGCTGGTCAGCGAGCATTTAACAAAGGGCCTGA
CCCTTGAAAGGCTTACTGCTGCATGGCTGTCTGCATGAACCACGCCTGGTGAAGGAGCCTGGGTGAGAAACACCA
TCCAAAGCTGGGGCAAAGATGATTACCTTCAGCATGATTACAATGTATTACCTTCAGTATGATTACAGAAGTCCT
ACTTGACAAATCACATATAGAAGAACGGTGCTATTACAGTAAGTTCTCTTTCCCTTGGAGGGAAGACAGCAG
AGTCATCAGTTAAAAAAGAAAACCAACACCTCCCTTGAATAAATTTATACTCCTGTTCCAGGATCT
TGAGCTTTAGTGTGCTATACCTATGTGTCTTATCGTGGGCCACTGTGCCAATAAACAAAAACAACCTGTTGGTTT
ACCTC

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FIGURE 2066

GGCCGCGCCCTGCAGATTGTCTCTTGTGGCGTAAGTTTTTTTGACCGTCACTCGTGTCAGCTTCAAAGTCAGATA
GATTTTTCTCCCAGCATGTTCTACTTCCGAGGCTGTGGCCGTTGGGTGCGGGTTTCCTTCACCAAGCAGCAATTT
CCGTTGGCAGCGTTGAGCAGTGACAGCGCGCGCCCGGACTCCGCACCTCGACGTGATAGTCATTGGTGGAGGA
CATGCCGGGACTGAGGCAGCCACCGCGCCGCTCGGTGCGGCTCTCGGACTCTGCTCCTCACTCACC CGTGGAC
ACGATCGGTCAGATGTCATGTAATCCTTCCTTTGGTGGCATCGGAAAGGGACATTTAATGAGGGAAGTAGATGCC
TTGGATGGCCTGTGTTCTCGCATCTGTGACCAGTCTGGTGTACATTATAAAGTATTAAACCGCGTAAGGGACCA
GCTGTGTGGGGTCTGAGAGCTCAGATTGATAGGAACTCTACAAAAGAACATGCAGAAAGAAATCTTGAATACA
CCACTGCTTACTGTTTCAAGAGGGAGCTGTAGAAGATCTTATCTTACAGAACAGAGCCTGAACACACTGGGAAA
TGCCGTGTCAGTGGGGTTGTTTTGGTGGATGGAAGCACAGTATATGCAGAGAGTGTGATTCTGACTACTGGGACA
TTTTCTGAGAGGCATGATTGTAATTGGATTGGAGACGCATCCAGCAGGACGTTTAGGGGATCAGCCTTCTATAGGA
TTGGCTCAGACACTGGAGAAGTTAGGGTTTGTGGTGGGAAGGTTGAAGACTGGGACTCCACCCCGAATTGCCAAA
GAGTCCATTAATTTAGTATTCTAAACAAGCATATACCGGACAATCCATCCATACCATTAGCTTTACCAATGAG
ACAGTATGGATTAAGCCAGAAGATCAGCTGCCATGTTACTTGACTCACACCAACCCTAGAGTGGATGAGATTGTC
CTTAAGAACCTTCACCTTAATAGTCATGTTAAAGAAACGACAAGAGGACCTCGATACTGTCCCTCCATTGAATCA
AAAGTTTTGCGTTTTTCCAAACCGTCTACATCAGGTTTGGTTGGAACCTGAAGGAATGGATTCTGACCTTATCTAC
CCACAGGGGTATCTATGACGCTACCAGCTGAGTTACAAGAGAAAATGATCAGATGCATCAGAGGCTTGGAGAAA
GCTAAAGTGATTAGCCAGACGGAGTTTGGCTCTTGTGGCCAGGATGGAGTGAATGGTGCGATCTCGGCTCAC
CACAACCTCCCCCTGCCAGGCTACGGTGTTCAGTATGATTACTTAGATCCCCGTCAGATCACCCTTCTTTGGAG
ACTCATTGGTTCAACGACTCTTCTTTGCTGGACAGATCAATGGCACCCTGTTTATGAGGAAGCTGCAGCTCAA
GGTGTGATAGCCGGAATCAACGCCAGTCTTCGGGTGAGTCGCAAGCCTCCCTTTGTGGTTAGCCGAACAGAAGGT
TACATAGGAGTCTTGATTGATGACCTCACTACTCTGGGCACCAGTGAACCATACCGCATGTTTACCAGCCGAGTA
GAGTTCGTTTGTCACTGCGCCCTGATAATGCTGACAGCCGGCTCACACTGCGAGGGTATAAAGACGCTGGCTGT
GTGTCCCAACAACGATATGAAAGAGCTTGTGGATGAAGTCTTCTTTAGAAGAAGGCATTTCTGTGTGAAATCT
ATTGAGTTTTTGAGCTCTAAATGGAATAAATTAATCCCAGAGGCTTCTATAAGTACTAGTAGAAGCTGCCTGTC
AGAGCTCTCGATGTTCTGAAGTATGAGGAAGTTGACATGGATTCAATTAGCCAAGGCTGTTCCAGAGCCCTTGAAG
AAGTATACTAAATGTAGAGAGCTGGCTGAAAGACTGAAAATAGAAGCCACTTATGAATCAGTGTGTTCCATCAA
CTACAAGAAATAAAGGGAGTTCAGCAAGATGAAGCTCTCCAAGTCCAAAAGACCTAGATTATTTGACTATCAGG
GATGTGTCTTTGTCCCATGAAGTTCGAGAGAACTACATTTTAGTCGTCCACAGACGATCGGGGCTGCTAGTCGC
ATACCCGAGTAACACCTGCCGCCATCATCAATCTGCTGAGATTGTGAAGACCACTCAACGAAGACAGTCGGCT
ATGAATGAATCATCAAGACTGATCAATACTTATGTGATGCAGACAGACTTCAAGAGAGAGGTTATAGCTTTCA
ATTCATAAAAGATTTTTAAAGAGCATATAAATAATTTGATCAATACAACAGTATAGATAAAAGAATTATTTAGCA
CATGTTAAATAGCTTTATTAGGTTACTATGGGTTTGCCATTAAATTTCTGAGTGGGACAGAAATTATAATTGTGC
TTTTTCGTGTATATGAAAAAAGTAGTCGTAAACAATTTGTACTCTTTCTTTAAGGAGCTGTAATACAAATAACTT
TGTGCAGTGTTCATCAAAGAGAGAGACAGTGAACCTAAAAGTGAACCTGGAATAAAACTCAACATGCAGATTGTC
CTACTCATAGGGACTTTGCCTATTAAAGTCTACCAAAATTAAGTCTTATCATTACGCGTGTGTTTGAAGTTAATA
ATCTTTTGCTTTGGTTATACTAGGCTAGGAAGCAATATCAAAGCCCTTAAATTCTCAAGACTAAAGACTTGAGATT
ATATAAAATTATCCAGAATCATTAGCTAATACTATTGGAATATAGTATGTAGGGTGAAAGTTGACAGAAATCTG
TACTTCTTCAGGAAATCCTCACTGGTAATTGTTTGAACATTAATGAAAGCCCTATAAAATAGAAAGATTGGAAG
TCACCATGTGTTTCTATTATCCACAGTGTGGATGGATACTTATTTGGTGACCTAGTTATGGGAGAATTGAGTAAC
GTTAGTTATTTTATATCATACCATAAAAAATATTTTC

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FIGURE 2067

MFYFRGCGRWVAVSFTKQQFPLARLSSDSAAPRTPHFDVIVIGGGHAGTEAATAAARCGSRTLLLTHRVDITIGQM
SCNPSFGGIGKGHLMREVDALDGLCSRICDQSGVHYKVLNRRKGPVWGLRAQIDRKLYKQNMQKEILNTPLLTV
QEGAVEDLILTEPEPEHTGKCRVSGVVLVDGSTVYAESVILTTGTFLRGMIVIGLETHPAGRLGDQPSIGLAQTL
EKLGFVVGRILKTGTPPRIAKESINFSILNKHIPDNPSIPFSFTNETVWIKPEDQLPCYLTHTNPRVDEIVLKNLH
LNSHVKETTRGPRYCPSIESKVLRFNRLHQVWLEPEGMDSDLIYPQGLSMTLPAELQEKMITCIRGLEKAKVIO
PDGVLLLLPRMECNGAISAHNNLPLPGYGVQYDYLDPQITPSLETHLVQRLFFAQINGTTGYEEAAAQGVIA
INASLRVSRKPPFVVSRTGYIGVLIDDLTTLGTSEPYRMFTSRVEFRLSLRPDNADSRLTLRGYKDAGCVSQQR
YERACWMKSSLEEGISVLKSIEFLSSKWKLIPEASISTSRSLPVRALDVLKYEVDMDSLAKAVPEPLKKYTKC
RELAERLKIEATYESVLFHQEQEIKGVQQDEALQLPKDLTYLTIRDVSLSHEVREKLHFSRPQTIGAASRIPGVT
PAAIINLLRFVKTTRRQSAMNESSKTDQYLCADRLQEREL

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FIGURE 2068

CTCATTTAACTTTTTAAATGGGTCTCAAAATTCTGTGACAAATTTTGGTCAAGTTGTTTCCATTAAAAAGTACT
GATTTTAAAACTAATAACTTAAACTGCCACACGCAAAAAAGAAAACCAAAGTGGTCCACAAAACATTCTCCTT
TCCTTCTGAAGGTTTTACGATGCATTGTTATCATTAAACCACTCTTTTACTACTAACTTAAATGGCCAATTGAAA
CAAACAGTTCTGAGACCGTTCTTCCACCACTGATTAAGAGTGGGGTGGCAGGTATTAGGGATAATATTCAATTAG
CCTTCTGAGCTTTCTGGGCAGACTTGGTGACCTTGCCAGCTCCAGCAGCCTTCTGTCCACTGCTTTGATGACAC
CCACCGCAACTGTCTGTCTCATATCACGAACAGCAAAGCGACCCAAAGGTGGATAGTCTGAGAAGCTCTCAACAC
ACATGGGCTTGCCAGGAACCATATCAACAATGGCAGCATCACCACTTCAAGAATTTAGGGCCATCTTCCAGCT
TTTTACCAGAACGGCGATCAATCTTTTCCCTTCAGCTCAGCAAACCTTGCAATGCAATGTGAGCCGTGTGGCAATCCA
ATACAGGGGCATAGCCGGCGCTTATTTGGCCTGGATGGTTCAGGATAATCACCTGAGCAGTGAAGCCAGCTGCTT
CCATTGGTGGGTCATTTTTGTCTGTACACAGCAACGTTGCCACGACGAACATCCTTGACAGACACATTCTTGACAT
TGAAGCCACATTGTCCCCAGGAAGAGCTTCACTCAAAGCTTCATGGTGCATTTGACAGATTTTACTTCCGTTG
TAACGTTGACTGGAGCAAAGGTGACCACCATACCGGTTTGAGAACACCACTCTCCACTCGGCCAACAGGAACAG
TACCAATACCACCAATTTTGTAGACATCCTGGAGAGGCAGGCGCAAGGGCTTGTGAGTTGGACGAGTTGGTGGTA
GGATGCAGTCCAGAGCCTCAAGCAGCGTGGTTCCACTGGCATTGCCATCCTTACGGGTGACTTTCCATCCCCTTGA
ACCAAGGCATGTTAGCACTTGGCTCCAGCATGTTGTACCAATTCCAACCAGAAATTGGCACAAATGCTACTGTGT
CGGGGTTGTAGCCAATTTTCTTAATGTAAGTGCTGACTTCCTTAACAATTTCTTCATATCTCTTCTGGCTGTAGG
GTGGCTCAGTGGAATCCATTTTGTAAACACCGACAATTAGTTGTTTCACACCCAGTGTGTAAGCCAGAAGGGCAT
GCTCTCGGGTCTGCCCATTTCTTGAGATACCACTTCAAATTCACCAACACCAGCAGCAACAATCAGGACAGCAC
AGTCAACCTGAGATGTCCCTGTAATCATGTTTTTGATAAAGTCTCTGTGTCTTGGGGCATCAATGATAGTCACAT
AGTACTTGCTGGTCTCAAATTTCCACAAGGAGATATCAATGGTGATACACGTTTACGCTCAGCTTTCAGTTTAT
CCAAGACCCAGGCATACTTGAAGGAGCCCTTTCCCATCTCAGCAGCCTCCTTCTCAAATTTTCAATGTTCTTT
TGTCGATGCCACCGCATTTATAGATCAGATGGCCAGTAGTGGTGGACTTGCCCGAATCTACGTGTCCAATGACGA
CAATGTTGATATGAGTCTTTTCTTCCCATTTTGGCTTTTAGGGGTAGTTTTCACGACACCTGTGTTCTGGCGG
CAAACCCG

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FIGURE 2069

ACGGGTTTGCCGCCAGAACACAGGTGTCGTGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATA
TCAACATTGTCGTCATTGGACACGTAGATTGCGGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCCGGTG
GCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCT
GGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTTGAAAATTTGAGACCA
GCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTTATCAAAAACATGATTACAGGGACATCTC
AGGCTGACTGTGCTGTCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAGAATGGGCAGA
CCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTGTCGGTGTAAACAAAATGGATTCCA
CTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCT
ACAACCCCGACACAGTAGCATTGTTGCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAAGTGCTAACA
TGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGAACCACGCTGCTTGAGGCTCTGG
ACTGCATCCTACCACCAACTCGTCCAAGTGAAGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTG
GTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTTCCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAG
TCAACGTTACAACGGAAGTAAATCTGTGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCTGGGGACAATG
TGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTGCTGCTGGCAACGTTGCTGGTGACAGCAAAAATGACC
CACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCGCCGGCTATG
CCCCTGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTT
CTGGTAAAAAGCTGGAAGATGGCCCTAAATCTTGAAGTCTGGTGTGCTGCCATTGTTGATATGGTTCCCTGGCA
AGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTGCGCTTTGCTGTTCTGTGATATGAGACAGACAG
TTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCAGAAAAG
CTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGGTGGAGAACGGTCTCAG
AACTGT

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FIGURE 2070

CCGGCTCGCGCCCTCCGGGCCCAGCCTCCCGAGCCTTCGGAGCGGGCGCCGTCCCAGCCCAGCTCCGGGGAAACG
CGAGCCCGCATGCCTGGGGGGTGCTCCCGGGGCCCCGCCGCCGGGGACGGGCGTCTGCGGCTGGCGCGACTAGCG
CTGGTACTCCTGGGCTGGGTCTCCTCGTCTTCTCCACCTCCTCGGCATCCTCCTTCTCCTCCTCGGCGCCGTTT
CTGGCTTCGCGCGTGTCCGCCCAGCCCCGCTGCCGGACAGTGCCCCGCGCTGTGCGAGTGCTCCGAGGCAGCG
CGCACAGTCAAGTGCGTTAACC CGCAATCTGACCGAGGTGCCACGGACCTGCCCGCCTACGTGCGCAACCTCTTC
CTTACCGGCAACCAGCTGGCCGTGCTCCCTGCCGGCGCCTTCGCCCGCCGGCCGCGCTGGCGGAGCTGGCCGCG
CTCAACCTCAGCGGCAGCCGCTGGACGAGGTGCGCGCGGGCGCCTTCGAGCATCTGCCAGCCTGCCCCAGCTC
GACCTCAGCCACAACCCACTGGCCGACCTCAGTCCCTTTCGCTTTCTCGGGCAGCAATGCCAGCGTCTCGGCCCCC
AGTCCCCCTTGTTGAACTGATCCTGAACCACATCGTGCCCCCTGAAGATGAGCGGCAGAACC GGAGCTTCGAGGGC
ATGGTGGTGGCGGCCCTGCTGGCGGGCGGTGCACTGCAGGGGCTCCGCCGCTTGAGCTGGCCAGCAACCACTTC
CTTTACCTGCCCGGGGATGTGCTGGCCCAACTGCCCAGCCTCAGGCACCTGGACTTAAGTAATAATTGCTGGTG
AGCCTGACCTACGTGTCTTCCGCAACCTGACACATCTAGAAAGCCTCCACCTGGAGGACAATGCCCTCAAGGTC
CTTCACAATGGCACCCCTGGCTGAGTTGCAAGGTCTACCCACATTAGGGTTTTCTTGACACAACATCCCTGGGTC
TGCGACTGCCACATGGCAGACATGGTGACCTGGCTCAAGGAAACAGAGGTAGTGAGGGCAAAGACCGGCTCACC
TGTGCATATCCGGAAAAATGAGGAATCGGGTCCTCTTGAACTCAACAGTGCTGACCTGGACTGTGACCCGATT
CTTCCCCCATCCCTGCAAACCTCTTATGTCTTCTGGGTATTGTTTTAGCCCTGATAGGCGCTATTTTCTCCTG
GTTTTGTATTTGAACCGCAAGGGGATAAAAAAGTGGATGCATAACATCAGAGATGCCTGCAGGGATCACATGGAA
GGGTATCATTACAGATATGAAATCAATGCGGACCCAGATTAAACAAACCTCAGTTCTAACTCGGATGTCTGAGAA
ATATTAGAGGACAGACCAAGGACAACCTCTGCATGAGATGTAGACTTAAGCTTTATCCCTACTAGGCTTGCTCCAC
TTTCATCCTCCACTATAGATACAACGGACTTTGACTAAAAGCAGTGAAGGGGATTGCTTCCTTGTTATGTAAAG
TTTCTCGGTGTGTTCTGTAAATGTAAGACGATGAACAGTTGTGTATAGTGTTTTACCCTCTTCTTTTCTTGAA
CTCCTCAACACGTATGGAGGGATTTTCAGGTTTCAGCATGAACATGGGCTTCTTGCTGTCTGTCTCTCTCAG
TACAGTTCAAGGTGTAGCAAGTGTACCCACACAGATAGCATTCAACAAAAGCTGCCTCAACTTTTTCGAGAAAAA
CTGCAGACGTTAGCAGGCTCTTCAAAAATACTCCATGGTGACAGGAGCACCTGCATCCAAGAGCATGCTTACAT
TTTACTGTTCTGCATATTACAAAAATACTTGCAACTTCATAACTTCTTTGACAAAGTAAATTACTTTTTTGAT
TGCAGTTTATATGAAAATGTACTGATTTTTTTTAATAAACTGCATCGAGATCCAACCGACTGAATTGTTAAAAA
AAAAAAAAAATAAGATTCTTAAAGAA

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FIGURE 2071

MPGGCSRGAAGDGRRLRLARLALVLLGWVSSSSPTSSASSFSSSAPFLASAVSAQPPLPDQCPALCECSEAARTV
KCVNRNLTEVPTDLPAYVRNLFLTGNQLAVLPAGAFARRPPLAELAALNLSGSRLDEVRAFAFEHLPSLRQLDLS
HNPLADLSPFAFSGSNASVSAPSPLVELILNHIVPPEDERQNRSFEGMVVAALLAGRALQGLRRELASNHFLYL
PRDVLAQLPSLRHLDLSNNSLVSLTYVSFRNLTHLESLEHLEDNALKVLHNGTLAELQGLPHIRVFLDNNPWVDC
HMADMVTWLKETEVVQGDRLTCAYPEKMRNRVLELNSADLDCDPIPPSLQTSYVFLGIVLALIGAIFLLVLY
LNRKGIKKMMHNIRDACRDHMEGYHYRYEINADPRLTNLSSNSDV

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FIGURE 2072

CCTGGAGGCCGGCTTGGCGGCCAGGCGCAAGTTCGCGACGTCACCCGATCCGACCCTGGTACCCGGAGCGGCCCT
GGCGCGGCTGTTCGGCTGGCACCAGCTCCCTGCAGGAAGAGTGGAGAGGTTGTTCCCGCGGGGAGCGGGTACCGG
CCGCATCCCGGCCGGACCAGGGAGCCTGGGCGCCGGCAGTTCGGCTGCTGGTGTGTTAATGTGTGTTTTTGGTCTT
CTCCCCAAGCAATGGAAACAGAGTTGCTGCTTCAGTGGTAGTAGTACTTGCAATTCAGTAACACTAACTTAAAA
TCTACTTTAGACACAGTGGGCGATAGTATGAAAGAACCAAGAAGGATTTCGGCTGTCCTGGAGCTGATAATGCTG
CAAAACAAGCCATGATGAGATGTTCTCCACATTTACAAAATCCGGGAGACTGCGGATGGGCTGTGCCTGGAGGTG
GAGGGGAAATTGTAAGTAGGACAGAGGGTAACATTGATGACTTGCTCATTGGTGGAAATGCCTCCGCTGAAGGC
ACTGAAAGCGAAGGCAAACTTGAAGAACAGAGACCAGAAAGAGTAAAACCTTTTATGACAGGGGCTGCAGAACAA
ATCAAAACACATCCTTGCTAATTTCAAAGCTACCACTTCTTTATTGGTGAAAACATGAATCCAGATGGCATGGTT
GCTCCACAGGACTACCAAATAGAAGTTCAAGCTTCGGATGACACTGAAAGGTGTTTCAGGAGATTTTGGTTCCACT
AGAAATAATGAAAATTTATGCCAAGAATAG

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FIGURE 2073

MCVFGLLPKQWKQSCCFSGSSTCNSSNTNLKSTLDTVGDSMKEPRRISAVLELIMLQTSHEMFSHIYKIRETAD
GLCLEVEGKLVSRTEGNIDDLIGGNASAEGTESEGLEEQRPVVKPFMTGAAEQIKHILANFKSYHFFIGENM
NPDGMVAPQDYQIEVQASDDTERCSGDFGSTRNNENLCQE

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FIGURE 2074

AGAGAGGAGCCGACTCGGCAGGGACTGGGGGACCGGGCCGAGAGTGCAGCGAGCGAGGGAGGGAGTGAGGGAGC
GTGCGAGCCAGAAGGGGAAAGGCGGCCACTCGTGCCCTGAGCGACCGCAGAGGGGAGTGGGAGCAGTGGGGTAAAG
GAGCGGGGGGCGGGAATAAGAAAGGCCGAGAGAAGGCGGACAGAGGGCTAGTGGTGGTGGTGGTGGTAGGGGGAGA
AGGAGGAGCTGGAGGAGGGCAGGGGCTGAGGGAGTGAGTGAAGCGGACGCGCGAGGGAGGGGAGGGAAGGGAAGG
GAAGGGAAGGGGGGGTCACGCGGGGGCGCGCGCGCACCGGGAGCGCGCTCGGAGGCGAGTGGAACTGGATCGG
GTTTGCTGCCAGCGCGTGAGCTTCGGCCGCCATTTTACAACAGCTCCACTCGCGCCGGACACAGGGAGCAGCGA
GCACGCGTTTTCCCGCAACCCGATACCATCGGACAGGATTCTCCGCTCAGCCCCAACGGGGAGATCTCTGGAAC
ATGGCTACAGAACATGTTAATGGAATGGTACTGAAGAGCCCATGGATACTACTTCTGCAGTTATCCATTAGAA
AATTTTCAGACATTGCTTGATGCTGGTTTACCACAGAAAGTTGCTGAAAACTAGATGAAATTTACGTTGCAGGG
CTAGTTGCACATAGTGATTTAGATGAAAGAGCTATTGAAGCTTTAAAAGAATTCAATGAAGACGGTGCATTGGCA
GTTCTTCAACAGTTTAAAGACAGTGATCTCTCATGTTTCAGAACAAAAGTGCCTTTTTATGTGGAGTCATGAAG
ACTTACAGGCAGAGAGAAAAACAAGGGACCAAAAGTAGCAGATTCTAGTAAAGGACCAGATGAGGCAAAAATTAG
GCACTCTTGGAAGAAGCAGGCTACACACTTGATGTGACCACTGGACAGAGGAAGTATGGAGGACCACCTCCAGAT
TCCGTTTATTTCAGGTCAGCAGCCTTCTGTTGGCACTGAGATATTTGTGGGAAAGATCCCAAGAGATCTATTTGAG
GATGAACTTGTTCCATTATTTGAGAAAGCTGGACCTATATGGGATCTTCGTCTAATGATGGATCCACTACTGGT
CTCAATAGAGGTTATGCGTTTGTCACTTTTTGTACAAAAGAAGCAGCTCAGGAGGCTGTTAACTGTATAATAAT
CATGAAATTCGTTTCGGAACCATATTTGGTGTCTGCATCTCAGTTGCCAACAAATAGGCTTTTTGTGGGCTCTATT
CCTAAGAGTAAACCAAGGAACAGATTCTTGAAGAATTTAGCAAAGTAACAGAGGGTCTTACAGACGTCATTTTA
TACCACCAACCGGATGACAAGAAAAAACAGAGGCTTTTGCTTTCTTGAATATGAAGATCACAAAACAGCTGCC
CAGGCAAGGCGTAGGTTAATGAGTGGTAAAGTCAAGGCTCGGGGAATGTTGGAAGTGTGAATGGGCTGATCCT
ATAGAAGATCCTGATCCTGAGGTTATGGCAAAGGTAAAGTGCTGTTTGTACGCAACCTTGCCAATACTGTAACA
GAAGAGATTTTAGAAAAGGCATTTAGTCAGTTTGGGAACTGGAACGAGTGAAGAAGTTAAAAGATTATGCGTTC
ATTCAATTTGATGAGCGAGATGGTGTCTCAAGGCTATGGAAGAAATGAATGGCAAAGACTTGAGGGAGAAAAAT
ATTGAAATTTGTTTTGCCAAGCCACCAGATCAGAAAAGGAAAGAAAGAAAAGCTCAGAGGCAAGCAGCAAAAAAT
CAATGTATGACGATTACTACTATTATGGTCCACCTCATATGCCCCCTCCAACAAGAGGTCGAGGGCGTGGAGGT
AGAGGTGGTTATGGATATCCTCCAGATTATTATGGATATGAAGATTATTATGATTATTATGGTTATGATTACCAT
AACTATCGTGGTGGATATGAAGATCCATACTATGGTTATGAAGATTTTCAAGTTGGAGCTAGAGGAAGGGGTGGT
AGAGGAGCAAGGGGTGCTGCTCCATCCAGAGGTCGTGGGGCTGCTCCTCCCCGCGGTAGAGCCGGTTATTACAG
AGAGGAGGTCTTGGATCAGCAAGAGGCGTTTCGAGGTGCGAGAGGAGGTGCCAACAAACAAGAGGCCGCGGGTA
CGTGGTGCGAGGGGTGGCCGCGGTGGAATGTAGGAGGAAAGCGCAAAGCTGATGGGTACAACCAGCCAGATTCC
AAGCGGCGCCAGACCAATAATCAGAACTGGGGCTCCCAACCCATTGCTCAGCAACCGCTCCAAGGTGGTGATCAT
TCTGGTAACATATGTTTACAAATCTGAAAACCAGGAGTTTATCAGGATACTTTGGGCAACAGTGAAGTAGAAA
CAGTAGGGCCTCTGTAAAATTGGAGACTGATAGGTTGATCAGAACTCACCTAAATCTGAACGGGTGCCGCTAT
AATTTGTGACATCTGGCAAGATTTCCCTTTATGTATATATTTTAACAATCCGCTTGGACACGAACAAAGCCACAC
TTCTAAGTCTTCTGGCGAAGTATTTTATTTTATTTTCAATAAAGATATTCTTAGATACTGAAAGAAAT
AGTTAATGAGTTTGCAATTGTGCTTGAGAAAATTTGGCTCAAGTCCATTTGGCTGTAGTGTCACGATGTTTCCA
GTAGTGTTTAGATTTGGTGTCTTCAAAGGTAGTTGATTAAACCAAGTGTGTCTTAAATATCTTGATCAGAATA
ACTTTGTATGTTACCAACTTAAATTGCTAGATAAAGGTAAATTGATACACAACTGCTATTTTTTAAATTTAGAATT
TGACCTAATTTGGGTTTTCAAACCATTTTGGCTACTTGTATTCTTTATGCTGTTGTTTATTTCAATAAAAAAT
CACACCT

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FIGURE 2075

ATGCGGTGCGGCTTTCGCCGCGCTATTGCTTGCCAGCTTTCAGAGTGTGAATCTTCCACCAGAAACTTGATC
ACATCAATATCTGCAGTTCCAATTTCCCAAAAAGAAGAAGTAGCTGATTTTCAGCTTTCTGTGGATTCTTTATTG
GAAAAAGACAATGACCATTCAAGACCAGATATTCAAGTTCAAGCCAAGAGACTAGCAGAGAAGCTAAGATGTGAT
ACAGTGGTGAGTGAAATCAGTACTGGTCAAAGGACTGTAAATTTCAAAATAAACAGAGAGCTCTTAACAAAGACA
GTGCTACAACAAGTAATTGAAGATGGCTCAAATATGGATTAAAAAGTGAACCTTTCTCTGGACTTCCCAGAAG
AAGATTGTGGTTGAATTCAGTTCACCTAATGTTGCCAAAAAATTTTCATGTTGGACATTTGCGTTCTACCATCATA
GGAAATTTTATAGCAAATCTCAAAGAAGCTTTAGGACATCAAGTAATAAGAATAAATTACCTTGGCGATTGGGGC
ATGCAGTTTGGTCTTCTGGGAAGTGGCTTCCAGCTGTTTGGCTATGAGGAAAACTGCAGTCCAATCCTCTACAG
CATCTCTTTGAAGTTTATGTACAAGTTAATAAAGAAGCAGCAGATGATAAAAGTGATAGCAAAAGCAGCACAGGAG
TTCTTCCAACGATTGGAAGTGGGCGAIGTGCAAGCACTTTCAGTGTGGCAAAAATTTCTGGGACTTGAGCATTGAA
GAGTACATTCTGGGTTTACAAGCGTCTGGGAGTATATTTTGATGAATATTCAGGAGAATCATTATCGTGAAAAA
TCTCAAGAGGTCTTAAAGTTGCTGGAGAGTAAAGGACTCCTACTGAGAACAATAAAAGGAACGGCTGTAGTAGAT
CTCTCTGGGAATGGCGACCCCTCCTCAATTTGTACTGTAATGCGAAGTGATGGGACTTCTCTCTATGCAACCAGA
GATCTTGCAGCTGCTATAGATCGAATGGACAAGTATAATTTTGATACAATGATATATGTGACAGATAAAGGACAA
AAAAAGCATTTTCAGCAAGTATTCCAAATGCTGAAGATCATGGGATATGACTGGGCAGAAAGTGCCAGCAGTG
CCCTTTGGAGTAGTACAGGGAATGAAGACTCGAAGAGGAGATGTCACCTTTCCTGGAAGATGTTTTAAATGAGATT
CAATTAAGGATGCTACAGAACATGGCTTCAATTAAGACAACATAAAGAACTCAAGAACCCACAAGAGACTGCAGAG
AGGGTCGGGCTCGCAGCACTCATTATTTCAGGACTTCAAAGGTTTACTCTTATCTGACTACAAGTTCAGCTGGGAT
CGTGTTTTCCAGAGTCGCGGGGACACAGGAGTCTTCTACAGTACACACGCCCCGCTCCACAGTTTGGAAGAG
ACTTTTGGATGTGGGTACCTGAATGACTTCAACACTGCTTGTTTACAAGAGCCACAGTCTGTTTCAATTCCTTTCAG
CATCTTCTCAGGTTTCGACGAGGTGCTTTATAAATCATCTCAGGACTTTCACCCAGGCATATCGTCAGTTACCTT
CTAACTTTAAGTCATCTTGACGCTGTGGCACACAAAACACTACAAATAAAAGATAGTCCTCCTGAAGTGGCTGGG
GCCAGACTTCATCTTTTCAAAGCTGTCCGTTCTGTCCTAGCCAATGGAATGAACTTCTTGGAATAACACCTGTA
TGTAGGATGTAA

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FIGURE 2076

MACGFRRRAIACQLSRVLNLPPENLITSISAVPISQKEEVADFQLSVDSLLEKDNDSRPDIQVQAKRLAEKLRC
TVVSEISTGQRTVNFKINRELLTKTVLQQVIEDGSKYGLKSELFSGLPQKKIVVEFSSPNVAKKFHVGHLRSTII
GNFIANLKEALGHQVIRINYLGDWGMQFGLLGTFQQLFGYEEKLQSNPLQHLFEVYVQVNKEAADDKSVAKAAQE
FFQRLGELGDVQALSLWQKFRDLSIEEYIRVYKRLGVYFDEYSGESFYREKSQEVLLKLESKGLLLRTIKGTAVVD
LSGNGDPSSICTVMRSDGTSYATRDAAAIDRMDKYNFDTMIYVTDKGQKKHFQQVFQMLKIMGYDWAERCQHV
PFGVVQGMKTRRGDVTFLEDVLNEIQLRMLQNMASIKTTKELKNPQETAERVGLAALIIQDFKGLLLSDYKFSWD
RVFQSRGDTGVFLQYTHARLHSLEETFGCCYLNDFNACLQEPQSVSILQHLLRFDEVLYKSSQDFQPRHIVSYL
LTLSHLA AVAHKTLQIKDSPPEVAGARLHLFKAVRSVLANGMKLLGITPVCRM

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FIGURE 2077

TTTTTTTTTTTTTTGTTCCCTGAATTATTTAAGTTTCTTATAGATTCTGGATATTAGACCTTCTTAGATGCATA
GCTTATGAATATTTTCTCCATTATTTAGGTTGTAGGGAAAGGGAGAGCTTTTGATTTTTTTAAGCATTACAGA
TAATGTTGAAGTCACTGATATATATTTGTTTGACTGCATTCCCTACCCTGCTTCCCTAGAGAGAACTGATCTCAT
GATGCAAATGATTATTTTACGAATCAGTTGCTTTGTGTTTGTCTTTGTTTTGTATTTTTTTTCCCTAC
CCAGTGAAAAGGATAAAATGGCATTGTCCATCTCTTAATGAACACTGAGTGTTAAGAAGAATATTCTTCTTTT
CTCATGTTGAACTCAAATTACAACATTTAAAAATATGTCATTGGAGGTCAGTGGAGAGGTTTGAATTAGAAG
CATGTATTTGGAGTAGTAGAGGAAGCATTGTAGAAGAGGTAAAGAGACCTGGGCTTTTTTCTCAGTCTGTTTTT
TTTGAGTAGGATTTTAAAGGAGACATTTAGCTTGCCAGACATCAGTTTTCATGTCTATAAAATAAGGTGGCTAG
TATAAGAGGAAGAATTTTTTGAGACTAGGTCTTGCTCTGTCACCCAGACTGGAGTGCAGTGGCATGATCTCGGCT
CACTGCAACCTCTGCCTCCTGGGTTCAAGCAATCTCGTGCCTAAGCCTCCCGAGTAGCTGGGCTTACGGGCACA
TGCCACCACGCTGGCTAATTTTTGTATTTTAGTAGAGATGGGGTTTTCCATGTTGGCCAGGCTGGTCTCAA
CTCCTGACCTTAAGTGGTCCACTTGCTCGGCTCCCAAAGTGCTGGGATCTGTGCCAGACAGAAGAGGAAGAA
TTTTATAAGATGATAAGAAAAACATTCTGAATAAATACTAGGTTATTTCTCATTTTCTTGCTTTAATTTGTTT
TTTATTTATTTATTTATTTATTTACTTTTTTGAGACAGAGTTTCGCTCTGTGCACCCAGGCTGGAGTGCAGTG
GCACAATCTTGACTCGCTGCAGTCTCCACCTCCAGGATTCAAGCGATTCCCTGCCTCAGTCTCCCAAGCAGCTG
GGATTGTAGGTACACACCACCATGCCTGGCTAATTTTTGTGTGTGTGTGTATTTTAGTAGAGATGGGGTTTT
ACCATGTGGCCAGGCTGGTCTAGAACTCAACCTCAGGTGATCCGCCTGCCTAGCCTCCCAAAGTGCTGGGATTA
CAGGCATGAGCCACCGCTCTCGGCCCCCTTGCTTTTAATTTGAAAGTACACATAACACCTTCTCTGGTAAAGG
TATGTCTCAATGGAGAACTCATAGTGATTAGTCTTTGTTTAACTAATGCTTTTAAAGGTAAACAGTTCTATCTC
GTTTCGATGTCTGTCTTTAGAGAAGTAGCTGATTTTCAGCTTCTGTGGATTCTTTATTGGAAAAAGACAATGAC
CATTCAAGACCAGATATTCAAGTTCAAGCCAAGAGACTAGCAGAGAAGGTACGTTAGCACTATTATCTTTTTG
ACATTGTAATAAACTTGTTATTAATAAAAGTACTTTGCAGGCTATCTCAGCCATAATAGTGAATTTAATAGTGT
TCTTTGAGGCATCTTGTTAATATAAATTTAAATTCATTTAGCCATGTACTATAAGGTTATAATGATTTTTCAGA
TTAGTTATAAAGCACTCCTCTTGAGCTGACATTGTTCAATTTTTTGATTAACTTACAGGAAGACTGAAGTGT
TAATTAAATTTACAGATTGAAGCTGG

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FIGURE 2078

MPRLANFCIFSRDGVFPCWPGWSQTPDLKWSTCLGLPKCWDLCPPDRRGRIL

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FIGURE 2079A

GATTGCCCCCTGTGGGTCACTTTCTCAGTCATTTTGAGCTCAGCCTAATCAAAGACTGAGGTTATGAAGTCGATC
CTAGATGGCCTTGCAGATACCACCTTCCGCACCATCACCCTGACCTCCTGTACGTGGGCTCAAATGACATTACG
TACGAAGACATCAAAGGTGACATGGCATCCAAATTAGGGTACTTCCCACAGAAATTCCTTTAACTTCCTTTAGG
GGAAGTCCCTTCCAAGAGAAGATGACTGCGGGAGACAACCCCCAGCTAGTCCCAGCAGACCAGGTGAACATTACA
GAATTTTACAACAAGTCTCTCTCGTCCCTCAAGGAGAATGAGGAGAACATCCAGTGTGGGGAGAACTTCATGGAC
ATAGAGTGTTCATGGTCTGAACCCAGCCAGCAGCTGGCCATTGCAGTCCCTGTCCCTCACGCTGGGCACCTTC
ACGGTCTTGGAGAACCTCCTGGTGTGTGCGTCATCCTCCACTCCCGCAGCCTCCGCTGCAGGCTTCCTACCAC
TTCATCGGCAGCCTGGCGGTGGCAGACCTCCTGGGGAGTGTCAATTTTGTCTACAGCTTCATTGACTTCCACGTG
TTCCACCGCAAAGATAGCCGCAACGTGTTTCTGTTCAAACCTGGGTGGGGTACGGCCTCCTTCACTGCCTCCGTG
GGCAGCCTGTTTCTCACAGCCATCGACAGGTACATATCCATTACAGGCCCTGGCCTATAAGAGGATTGTACACC
AGGCCCAAGGCCGTGGTGGCGTTTTGCTGATGTGGACCATAGCCATTGTGATCGCCGTGCTGCTCCTGGGC
TGGAAGTGCAGAACTGCAATCTGTTTGTCTCAGACATTTTCCACACATTGATGAAACCTACCTGATGTTCTGG
ATCGGGGTACCAGCGTACTGCTTCTGTTTCATCGTGTATGCGTACATGTATATTCTCTGGAAGGCTCACAGCCAC
GCCGTCCGCATGATTACAGCGTGGCAGCCAGAGCATCATCCACACGTCTGAGGATGGGAAGGTACAGGTG
ACCCGGCCAGACCAAGCCCGCATGGACATTAGGTTAGCCAAGACCCTGGTCTGATCCTGGTGGTGTGATCATC
TGCTGGGGCCCTCTGCTTGAATCATGGTGTATGATGCTTTGGGAAGATGAACAAGCTCATTAAAGACGGTGT
GCATTCTGCAGTATGCTCTGCCTGCTGAACCTCCACCGTGAACCCCATCATCTATGCTCTGAGGAGTAAGGACCTG
CGACACGCTTTCCGGAGCATGTTTCCCTCTGTGAAGGCACTGCGCAGCCTCTGGATAACAGCATGGGGGACTCG
GACTGCCTGCACAAACAGCAAACAATGCAGCCAGTGTTCACAGGGCCGAGAAAGCTGCATCAAGAGCACGGTC
AAGATTGCCAAGGTAACCATGTCTGTGTCCACAGACAGCTCTGCCGAGGCTCTGTGAGCCTGATGCCTCCCTGGC
AGCACAGGAAAAGAAATTTTTTTTTTAAGCTCAAAATCTAGAAGAGTCTATTGTCTCCTTGGTTATATTTTTTA
ACTTTACCATGCTCAATGAAAAGGTGATTGTACCATGATCACTTATCAGTTTGCTAATGTTTCCATAGTTTAGG
TACTCAAACCTCATTCTCCAGGGGTTTACAGTGAAGAAAGCCTGTTGTTTAAAGTACTGAACGATCCTTCAAAGT
CTCAATGAAATAGGAGGGAAACCTTTGGCTACACAATTGGAAGTCTAAGAACCCATGGAAAAATGCCATCAAATG
AATAATGCCTTTGTAAACCACAACCTTTCACTATAATGTGAAATGTAAGTGTCCGTAGTATCAGAGATGTCCATTTT
TACAAGTTATAGTACTAGAGATATTTTGAAAATGTATTATGTCCTGTGAGATGTGTATCAGTGTATGTGCTA
TTAATATTTGTTTAGTTTCAGCAAACTGAAAGGTAGACTTTTATGAGAACAATGGACAAGCAGTGGATACGTGTC
AATGTGTGCACTTTTTTCTATATTATTGCCCATGATATAACTTTAGAAATAAACCTTAATATTCTTCAAATAT
CTCTATTTAATTTGACACTGAAATAACCGTAAAGGTTTATTTTCTGTTACCTCAACAAGAAGAAATTTGAAGAC
TTCAAATATTGAGCAGAATTCATTCTACTTAAAAATTTATTAGCCCTGCATTTTCATAGGAAGACACATTATC
TTCTGGACTATAGCTGTCTAATGGATTATAATCAGAATGGAAGAGAGAAAGCATATTGACTTTTTTTGAGCGAC
ATCTCTGACTTTCTTTAGTCTTTAGCTATTACTGGATCTCTTAAGACAGCATGTGTTAATCTTAATGTATATCGT
TATCACTGTGCAGTTGTCTGTTTACTTGAATAGTATTGTGTTCCATATTCCAGGTTTAAAGTAGATTTCATGCCTG
GGTGGCCAAACAACAGTCTTCATTTTTTTTAATTGAAAAGAAGTAGTGTCTGGATCAGTAAAAATTATCTGTGTG
TGAGTGTGAATATAAATGTGTGTATGTGTGTTTCTGTCTGTAAGTGTACAGTAATGTCTATAAAGTGAGAAAAC
TGTGACCAAGTATAAACTTTTACCATTGCTGCACCTTGCACATGGATTGAGTTTCTAAAAATTGAGTTCTTCCT
GTAATCTTGTGTGATAAAAAATACTGACTCCAACCATTCAAAAATTTACCCCATCCCTCCTTAAGAGATTGGATCA
AGTATTACTAAATTGACCTTTAGGTATTACACAAGACCAGTGTGCTTAGCAAAAAATAATGACAGGCATCCAAGGAA
GGGATGTATTTGTAGTGTATTGCCAGGAAAGGAGAGTACTTTGGTTTCTGAGCACCGAATATTGAGCAATATGT
CAGTCACTAAAAGGAAGACAGTTCTACAGAAAAACAATGGTAACATTTTTCAATAGCGTGTGTAGATAGTATGCA
CTATATACATCAGTTAAAGTAGGACTATCACACCCAGCCCATGTGGCTAAAAAAGCTGAATCAGACAGTGGATG
AGACACACAACCGCAGTGAAGAACCGATACACTTGGCATTGACGTCTAGCTATGCTGTATCTGTGCTTTGCCAC
ATGCCCTTGGTGACAGCTGAGCACCCAGCTCTGTCTTGGTAGGTTTGGGCTAAGGAACAAATCTCTCCTTTGCTC
GTGGTTAGCAAGATACACTCAAGCATGAAGATAAACACAGCTGCTTTCTTTTACACCCCGGTCTCATGCTCCTT
AATGGCGCCATGGGTGCTTGTGGGCCTTTTTCCAGTAAGGAATGATATTGCTGAAGAACTACTTAACCTGAC
AAATTTTAATTATAATCTCTTCTTATACAGATAAAACATGACTCCTACAAGGCCCAAGGTTTACATAGTCTGAA
GTGAAGTACAGAGCTGGCATCTATCTGGTGATTCTAGCTCTCGAGATACCAAGCAGCCTGATGGGGCAGTTCC
CCTTCTTACGGTTCACGCTCTAAGGCAGGATGTGGCTTATGAGATACCTTGCATTGTCTGTCTGCACACCTTGAA

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FIGURE 2079B

TCTGCCTGCTGGCTCCCTTACTTTACCTCTCTGTCTATGTGCAGATGAAGGCTCAGGGTGCTAGAGGATTAGTAAG
ATCTCTTTCTAAAGACAGGAGAGATTATTTACAAGAAGAACTCACCAGGGTTTAGTTTGCAATTAAGAATTGCCA
GTCTTTTGTCTGTCATCATCTTGAACATTAATCCACATGTTTCAGAGCTCACCAGGCAGTACCAATGCTCTTTTC
ACAGCTATGAAGAGCTAGAGAAATTCCTGTTATGGTAGAAAAATTTACGATTCAATTTTTGAACTGCATTTGTG
CGTATGCAGTGTAGATTTTATAGTGTGTTGTGCTTTCAAGATCTAAATCATATATAATAAATTAAGGGACAATGG
GGCTGACAGCACTAACTTGGTGCTTATTGATATTCTAAGAAATATCTGTGAAATATCATCACGTATGTTATACA
ACCTTCATTTAAAAAGGTTTAAACTAGTTAGATTCACTTTGACACTTTTCATATCATTCTTAACCCAAGTGAC
GAAAACATTGTCCCCAATGAATATACTCATTAGAATTACCATTGTGTTAATATCACTCATTAAATTAACCCATAAT
TAGATCCATTAATTTAAATGATTTAAATTTAAGTAAGTTTATAAGGTCTGACATCAGAGGTATCTTACTTTCCCT
CTGAGGATGATGTACTTGCCCTGACCATGCATTTTACCATCACACATGTTTCAGAAAGGGCCAAATTCCTAACCTG
CTCATTTTTTTTTTATCAGAGTCATGATGAATCAGTCCTAGAATGTTTCATTGACACAAGTAGGGCTGCCTCCAA
GAGGAACCTCTGATTTATTTGTATGAAATATATGTGAAAGGATATGAATCTGAGAGATGCTGTAGACATCTGTC
CTACACTTGAGATGATTTCCAAGCCTCTCTGGCACTTTGAGTTAAGTCTATCTGGTATTAAATGCCAAGGACCTT
TTGCTGCCTAAATCCACTCTGCAGGAAATAGGCCCAACCACCAGATGAGAATTAGGCCCTGGATGAGTAGCGCTA
TAGTTACTGTCTGTTGATTAAATTTCTGCCATTTTCATGTCCATAAAAGAGACCACCCATATCATGCACACAATTA
GATTTCTCACACTCTAACTGTATATTTGTATGATATTTTAAATCTCCTAAATGCTGGGCAATGGCTATTAAACAA
TTAATTGTCTTGCCTGGCCTTCTGATGAAATGTTAACAATGCCTATTGTAATATAGAAAAAACATTCTATCTA
CTGATTTGGGCTGAATGTATGTAAATAGGTTTCTAAAAAGTCAGATGTTTGAGCAGTGGCCTACAAATCAGTAAT
TTTCGGATGGGAGAGTTTCTTTACATTGCCGTGGCATCTTAAAGCTATCTTCATGTAAATTGACTGTACTAGGC
CTACTGGGGATCAGAGTTCCCAAGAAAGGAAACCTTTTCTGTATCTGGATTCAAATTTATTTCCAATGTTTCAA
GCGGGAACATGACTCTTTATTGTCTGTAAATCTAACATTATTACTTTTCCTCTTAGAAGAATATTGTATTGTTA
GATGTTTGTGAGCTGGTAACATCGTTGCAACCACTGCAATATCTTCGTTAGTAATCTGTATAATACTTTGTATA
CAAGTACTGGTAAGATTGTTATTAATGTAGCTTCAGTCATTAAATTACTATAGCAAAGTAGTACTTCTTCTGTA
ATATTTACAATGTATTAAGCCACAGTATATTTATTTCAATGTAATTAAGTGTAACTTATTCAAAGAGAAAA
CATCTCATCATGTCTATTGTCCAAAGTTACCTGGAATCAAATAAAAATTCTAGATTACCATGAAGAACATA

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FIGURE 2080

GAGCGCGGTTACCGGACGGGCTGGGTCTATGGTCGCTCCGCGGGCCGCTCCGCCGGCTGGTGCTTTTTTATCAGG
GCAAGCTGTGTTCCATGGCAGGGAACTTTTGGCAGAGCTCCCACTATTTGCAATGGATTTTGGATAAACAAGATC
TGTTGAAGGAGCGCCAAAAGGATTTAAAGTTTCTCTCAGAGGAAGAATATTGGAAGTTACAAATATTTTTACAA
ATGTTATCCAAGCATTAGGTGAACATCTTAAATTAAGACAACAAGTTATTGCCACTGCTACGGTATATTTCAAGA
GATTCTATGCCAGGTATTCTCTGAAAAGIATAGATCCTGTATTAAATGGCTCCTACATGTGTGTTTTTGGCATCCA
AAGTAGAGGAATTTGGAGTAGTTTCAAATACAAGATTGATTGCTGCTGCTACTTCTGTATTAAAACTAGATTTT
CATATGCCTTTCCAAAGGAATTTCTTAIAGGATGAATCATATATTAGAATGTGAATTCTATCTGTTAGAACTAA
TGGATTGTTGCTTGATAGTGTATCATCCTTATAGACCTTTGCTCCAGTATGTGCAGGACATGGGCCAAGAAGACA
TGTTGCTTCCCTTGCATGGAGGATAGTGAATGATACCTACAGAACGGATCTTTGCCTACTGTATCCTCCTTTCA
TGATAGCTTTAGCTTGCCTACATGTAGCCTGTGTTGTACAGCAGAAAGATGCCAGGCAATGGTTTGCTGAGCTTT
CTGIGGATATGGAAAAGATTTTGGAAATAATCAGGGTTATTTTAAAACTATATGAGCAGTGAAGAATTTTCGATG
AGAGAAAAGAGATGGCAACCATTCTTAGTAAGATGCCAAAACCAAAACCACCTCCAAACAGTGAAGGAGAGCAGG
GTCCAAATGGAAGTCAGAACTCTAGCTACAGCCAATCTTAAACATTCCGAAGAATTCCATAGTGGACCACTTGG
AAATAAACCAATTGGACAGATTTTCAGTAATGTCTTCAGTGGAACACAAATGAAATGAATAGCTTGTTTCTGTCAA
GCATATTGGAAAGTGATTTTATTTTTGCAAAATAAGTTTTTCTTTAATATGATTCTAGTACATAATTGATTAAAA
TCTCTTGATTATAAATGTTTGGAAAGGTTCTAAGGGGACCTACAGACAGACATACATAGACATTTCAAAATTAAT
AGCTTTTGATTAGTATAATATTTCTTAATTTGGATAATAAAAAATTGTAGCTTTTATTAAAGCCAGGAAACATGAA
GCATAATTTGTTTAAAATTCTCTTTGGTCATTGAGGACCAAAAAAGGACGTAAAAATTTACAGTCAATCTATGAG
GGTTTTTTCCCTCCATAAGTTTAACTTTAAAACTGTATTTAAGGAATCAAATCTTACAAATCCTGGAAGATTT
TGGTAATGATGTTGATAATTTCAAGGAAATTAATCAAGTACCTATATTGATTTAAAAGTGATTTTATTTCAGTAG
TTTGAGG.

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FIGURE 2081

AGTCTCCCCAGGTTGTAGACGCTGCGGCCCGGCCGCGGGTAAATAACAGATGCGGGTGAAAGATCCAACATAAA
GCTTTACCTGAGAAAGCCAAAAGAAGTAAAAGGCCTACTGTACCTCATGATGAAGACTCTTCAGATGATATTGCT
GTAGGTTTAACTTGCCAACATGTAAGTCATGCTATCAGCGTGAATCATGTAAAGAGAGCAATAGCTGAGAATCTG
TGGTCAGTTTGCTCAGAAATGTTTAGAAGAAAGAAGATTCTATGATGGGCAGCTAGTACTTACTTCTGATATTTGG
TTGTGCCTCAAGTGTGGCTTCCAGGGATGTGGTAAAACTCAGAAAGCCAACATTCATTGAAGCACTTTAAGAGT
TCCAGAACAGAGCCCCATTGTATTATAATTAATCTGAGCACATGGATTATATGGTGTTATGAATGTGATGAAAAA
TTATCAACGCATTGTAATAAGAAGGTTTTGGCTCAGATAGTTGATTTTCTCCAGAAACATGCTTCTAAAACACAA
ACAAGTGCATTTTCTAGAATCATGAACTTTGTGAAGAAAAATGTGAAACAGATGAAATACAGAAGGGAGGAAAA
TGCAGAAATTTATCTGTAAGAGGAATTACAAATTTAGGAAATACTTGCTTTTTTAATGCAGTCATGCAGAACTTG
GCACAGACTTATACTCTTACTGATCTGATGAATGAGATCAAAGAAAGTAGTACAAAACCTCAAGATTTTTCCTTCC
TCAGACTCTCAGCTGGACCCATTGGTGGTGGAACCTTCAAGGCCTGGACCACTGACCTCAGCCTTGTTCTCTGTTT
CTTCACAGCATGAAGGAGACTGAAAAAGGACCACTTCTCCTAAAGTTCTTTTTAATCAGCTTTGTCAGAAGCGG
GTGCATCTACATTTAATAATAATAATTATGAGTTACAAAATACTAATGTATTTCATCATTTAACATGAATAGTCGT
TTTTACTGTAACTTTGCTCTTATTGCCCTGACTATGAAGAGAACTAAAATTTGTTACAGCTCTATGCTTTATGAA
AATTATATCTCAGTCCTCAGAAGAAGCAGCTTATCCTCATATATAAGGAAATGGAGACACAGAAATTAATGGCT
CACCTAGTCTGAGTGAAAAGCTGAGAATCAATGGAGATCTGTCCTGACTTGGATGCCTATGTTGTAATACCATA
AAGTGAGAAAACCATAGAGTTGTAATCTAGAAAGTACCGTAAGATAACATCTAATCTAGCTTTCTTATTTTAA
AAGATGAGCTGTGAGGCAATAGAGTTTAAAGTGAATTTCTCAAGGTATTACAGTATGTTTAAAAACCAATCCTT
ATGTGCCTGGAATAAACACATAAAGGATCTGACTTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2082

MRVKDPTKALPEKAKRSKRPTVPHDEDSSDDIAVGLTCQHVS H A I S V N H V K R A I A E N L W S V C S E C L E E R R F Y D G Q
L V L T S D I W L C L K C G F Q G C G K N S E S Q H S L K H F K S S R T E P H C I I I N L S T W I I W C Y E C D E K L S T H C N K K V L A Q I V D F L
Q K H A S K T Q T S A F S R I M K L C E E K C E T D E I Q K G G K C R N L S V R G I T N L G N T C F F N A V M Q N L A Q T Y T L T D L M N E I K E S S
T K L K I F P S S D S Q L D P L V V E L S R P G P L T S A L F L F L H S M K E T E K G P L S P K V L F N Q L C Q K R V H L H L I

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FIGURE 2083

AGTTTGTTGCTCCACCGAGTTCTGAAGAACGCCAGCAGCTCGCTGCTTAAAATTAAACCACAGGGTTCCATGAT
GGGTCAACTTGATGGGAAAGTCATCATCCTGACAGCCGCTGCTCAGGGGATTGGCCAAGCAGCTGCCTTAGCTTT
TGTAAGAGAAGGTGCCAAAGTCATAGCCACAGACATTAATGTGTCCAACTTCAGGAAGTGGAAAAGTACCTGGG
TATTCAAACTCGTGTCCTTGATGTCACAAAGAAGAAACAAATTGATCAGTTCGCCAATGAAGTTGAGAGACTTGA
TGTTCTCTTTAATGTTGCTGGTTTTGTCCATCATGGAAGTGTCTGGATTGTGAGGAGAAAGACTGGGACTTCTC
GATGAATCTCAATGTGCGCAGCACGTACCTGATGATCAAGGCATTCCCTCCTAAAATGCTTGCTCAAAAATCTGG
CAATATTATCACCATGTTTTCTGTGGTTTCCAGCATCAAAGGAGTTGTGAACAGATGTGTGTACAGCACAAACCA
GGCAGCCGTGATTGGCCTCACAAAATCTGTGGCTGCAGATTTATCCAGCAGGGCATCAGGTGCAACTGTGTGTG
CCCAGGAACGGTTGATACGCCATCTCTACAAGAAAGAATACAAGCCAGAGGAAATCCTGAAGAGGCACGGAATGA
TTTCCTGAAGAGACAAAAGATGGGACGATTTGCAACTGCAGAAGAAATAGCCATGCTCTGCGTGTATGTGGCTTC
TGATGAATCTGCTTATGTAAGTGGTAACCCCTGTCATCATTGATGGAGGATGGAGCTTGATTTTAGGATCTCCA
TGGTGGGAAGGAAGGCAGGCTCTTCCTATCCACAGTGAACCTGGCTATGAAGAAAACACCAATCATCTCCTTC
CTGCTAATCACATGTTAATGAACTAAGCCCTTTTTAACAATGTCAGTGTGCAAGAGTCTGATTCTTTAAGTA
TATTAATCTCTTTGTAATCTCTTCTGAAATCATTGTAAAGAAATAAAAATATTGAACTCACAGCAAGAGAATAGT
TTTTAAATAAATCTCAATTTGTAAGC

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FIGURE 2084

MGQLDGKVIILTAAQGIGQAAALAFVREGAKVIATDINVSKLQELEKYLGIQTRVLDVTKKKQIDQFANEVERL
DVLFNVAGFVHHGTVLDCEEKDWDFSMNLNVRSTYLMIKAFLPKMLAQKSGNIITMFSVSVSSIKGVVNRVYSTT
KAAVIGLTKSVAADFIQQGIRCNCVCPGTVDTPSLQERIQARGNPPEARNDFLKRQKMGRFATAEEIAMLCVYVA
SDESAYVTGNPVIIDGGWSL

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FIGURE 2085

ATGAATGCTATAAAGAGATTTCAGGATGGAAAATTAGTACAGAACAAAGCCTACTGTGGAGAATCAACACCACAG
CATTTCACAGGCCTGCAGCCTTATGTGGTTAGCATGGATGAGGGTTCTTCAGGTTTCATGAGAATAGGCTATGAA
CACTGGGTTTTGGTCTTCTTGATTCTCAGTGCCTGGATACCAGAAAAAGAGAAATATGAGATTGCAGAGCAGCCC
AAGATTGATCAGAAAGCTGTGGACTCACAAATTTTACCAAAAATCAAAAGTATTCCTCAGCTCCAGTGCTACCTG
CGATCTGTGTTTGCTCTGACGAATGGAATTTATCCTCACAAATTGGTGTTTTAA

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FIGURE 2086

MNAIKRFQDGKLVQNKAYCGESTPQHFTGLQPYVVSMDGSSGFMRIGYEHWVLVFLILSAWIPEKEKEYEIAEQP
KIDQKAVDSQILPKIKSIPQLQCYLRSVFALTNGIYPHKLVE

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FIGURE 2087

ACAATCCAGCCAATGGCAGAAGACTGCCGGAATGTAGAAGAGTTAAGTGTGTGTCCTATGCGTTCTACCTCAAT
GCAGATATCAGAGTCCCTTTGAGCTCCCTGAAGAATATACTCACACCAAAGTATTACCTGCACATAGCTGCTCCC
TTCCACCTCGCGGCAGTTCAAAATGAAGCTGTTGTCATTTCTGGAAGGAACTAGCCCAGCAGATCAAGCAGAAA
GTGCGGCAGGAGGTGGAAGAGTGGGTGGCCTCAGGCAACAACTGAGCATGATCCTGTACCTGCTGCTATAGTT
CCAGCAAAAAAGATGACTTCTTGCAAGCAAGAAGGCTCCAGCCCAGAAGGTTCTTGCCAGAAAGCCACAGGCTA
GAGGCAGTGCCTCCTCTGAAAGCTCAGAAGTTTCAAAAGCAACGTGCCAGAAAGCATGTTGTCCAAAAGCATCT
GGCAAGAAAGCGTTAAGAGGCTATTATAAAAGTAGTAAAGGGTCCAACAACCTTCAAGGACAAGAATGATGTATTT
TCATCACTTGIGACTTCCGGTTTCCTAGACCAGATTTCCGGGTCGGTCTGACCAGGTGCAGCCCCATCCTAGCAGC
AGATTGCTTGTTCTCAGCATTCCCATCATGGAGAATCTTAGTGTGGTGGGAGGCTTGGGAAATACCGTTTTCAA
GACCAGTGGATTAGTAGCCTGAAAACTCGCCAGCAGTTGCCTGCTTTTGTTCATCTTCCTGTCTCTGGAAGAGCAC
CTGATCCTCACTACCAAAAACTAA

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FIGURE 2088

MAEDCRKCRRVKCVSYAFYLNADIRVPLSSLKNILTPKYLLHIAAPFHAAVQNEAVVISGRKLAQQIKQKVRQE
VEEWVASGNKPEHDPVPAIIVPAKKMTSCRQEGSSPEGSCPESHRLAEPPLKAQKFQKQRAQKACCPKASGKKA
LRGYKSSKGSNNFKDKNDVFSSLVTSGFLDQISGRSDQVQPHPSSRLLVLSIPIMENLSVVGGLGNTVFKDQWI
SSLKTRQQLPFAFVIFLSLEEHLILTTKN

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FIGURE 2089

ACCTGATGGAGATCCAAGTGTTTGGGCAGGATGAGATGATCGACGTCATTGGGGTGACCAAGGGCAAAGGCTACA
AAGGGGTCACCAGTCGTTGGCACACCAAGAAGCTGCCCTGCAAGACCCACCGAGGCCTGTGCAAGGTGGCCTGTA
TTGGGGCATGGCATCCTGCTCGTGTGGCCTTCTCTGTGGCACGTGCTGGGGAGAAAGGCTACCGTCACCGCACTG
AGATCAACAAGAAGATCTATAAGATTGGCCAGGGCTACCTTATCAAGGATGGCAAGCTGATCAAGAACAATGCCT
CCACTGACTCTGACCTGTCTGACAAGAGCACCAATCCTCTGGGTGGCTTTGTCCACTATGGTGAAGTGACCAATG
ACCTTGTCATGCTGAAAGGCTGTGTGGTGGGAACCAAGAAGCGGGTGCTCACCCCTCCACGAGTCCTTGCTGGTGC
AGATGAAACGGCAGGCTCTGGAGAAGATTGACCTTAAGTTCATTGACACCACCTCCAAGTTTGGCCATGGCTGCT
TCCAGACCATGGAGCAGAAGAAAGCATTGATGGGACCACTCAAGAAAGACGGAATTGCAAAGGAAGAAGGAGCTT
AATGCCAGGAACAGATTTGCGCAGCTGGTGTGGTCTCAATAAAAGTTATTTTCCACTGGGAAAAAAAAA

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FIGURE 2090

CGGTGATGTCTCACAGAAAGTTTTCTGCTCCCAGACATGGGTCCCTCGGCTTCCTGCCTCAGAAGCGCAGCAGCA
GGCATCGTGGGAAGGTGAAGAGCTTCCCTAAGGATGATCCGTCCAAGCCGGTCCACCTCACAGCCTTCCTGGGAT
ACAAAGCTGGCATGACCCACATCATGAGGGCTCTGGAGAAGATTGACCTTAAGTTCATTGACACCACCTCCAAGT
TTGGCCATGGCTGCTTCCAGACCATGGAGCAGAAGAAAGCATTGATGGGACCACTCAAGAAAGACGGAATTGCAA
AGGAAGAAGGAGCTTAATGCCAGGAACAGATTTGCGAGCTGGTGTGGTCTCAATAAAAGTTATTTTCCACTG

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FIGURE 2091

AACAGGAAGCGGCCCTCCCGGCTTCGGAGCCGCCGCACTCATCTCTGCCCAGCTGCTGCCCTCCCCAGGAGGC
CTCCATGGCTTCACCTACCTCCACCAACCCAGCGCATGCCACTTTGAGAGCTTCCTGCAGGCCAGCTGTGCCA
GGACGTGCTGAGCAGCTTCCAGGAGCTGTGTGGGGCCCTGGGGCTGGAACCCGGTGGGGGGCTGCCCCAGTACCA
CAAGATCAAGGACCAGCTCAACTACTGGAGCGCCAAGTCACTGTGGACCAAGCTGGACAAGCGAGCAGGCCAGCC
TGCTTACCAGCAGGGCCGGGCTGCACCAGCACCAGTGCCTGGTGGTGGGTGCTGGACCTTGCGGGCTGCGGGT
CGCTGTGGAGCTGGCGCTGCTGGGGGCCGAGTGGTGTCTGGTGGAAAAGCGCACCAAGTTCTCTCGCCACAACGT
GCTCCACCTCTGGCCCTTCACCATCCACGACCTGCGGGCACTCGGTGCTAAGAAGTTCTACGGGCGCTTCTGCAC
CGGCACCTTGGACCACATCAGCATCAGGCAGCTCCAGCTGCTTCTGCTGAAGGTAGCATTGCTGCTGGGGGTGGA
AATTAAGTGGGTGTCACTTTCACTGGCCTCCAGCCCCCTCTAGGAAGGGGAGTGGCTGGCGTGCCAGCTCCA
ACCAACCCCTGCCCAGCTGGCCAACTATGAATTTGACGTCCTTATCTCGGCTGCAGGAGGTAAATTCGTCCC
TGAAGGCTTCAAAGTTCGAGAAATGCGAGGCAAAGTGGCCATTGGCATCACAGCCAACTTTGTGAATGGACGCAC
CGTGGAGGAGACACAGGTGCCGGAGATCAGTGGTGTAGCCAGGATCTACAACCAGAGCTTCTTCCAGAGCCTTCT
CAAAGCCACAGGCATTGATCTGGAGAACATTGTGTACTACAAGGACGACACCCACTACTTTGTGATGACAGCCAA
GAAGCAGTGCCTGCTGCGGTGGGGGTGCTGCGCCAGGACTGGCCAGACACCAATCGGCTGCTGGGCAGTGCCAA
TGTGGTGGCCGAGGCTCTGCAGCGCTTTACCGGGCAGCTGCTGACTTTGCCACCCATGGCAAGCTCGGGAACT
AGAGTTTGCCAGGATGCCATGGGCAGCCTGATGTCTCTGCCTTTGACTTCACGAGCATGATGCGGGCAGAGAG
TTCTGCTCGTGTGAAGAGAAGCATGGCGCCCGCTGCTGCTGGGACTGGTGGGGGACTGCCTGGTGGAGCCCTT
CTGGCCCTGGGCACTGGAGTGGCAGGGGCTTCTGGCAGCCTTTGATGCAGCCTGGATGGTGAAGCGGTGGGC
AGAGGGCGCTGAGTCCCTAGAGGTGTTGGCTGAGCGTGAGAGCCTGTACCAGCTTCTGTACAGACATCCCCAGA
AAACATGCATCGCAATGTGGCCAGTATGGGCTGGACCCAGCCACCCGCTACCCCAACCTGAACCTCCGGGCAGT
GACCCCAATCAGGTACGAGACCTGTATGATGTGCTAGCCAAGGAGCCTGTGCAGAGGAACAACGACAAGACAGA
TACAGGGATGCCAGCCACCGGTGGCAGGCACCCAGGAGGAGCTGCTACGCTGGTGGCAGGAGCAGACAGCTGG
GTACCCGGGAGTCCACGTCTCCGATTGTCTTCTCTCTGGGCTGATGGGCTAGCTCTGTGTGCCCTGGTGTACCG
GCTGCAGCCTGGCCTGCTGGAACCTCAGAGCTGCAGGGGCTGGGAGCTCTGGAAGCAACTGCTTGGGCACTAAA
GGTGGCAGAGAATGAGCTGGGCATCACACCGGTGGTGTCTGCACAGGCCGTGGTAGCAGGGAGTGACCCACTGGG
CCTCATTGGCTACCTCAGCCACTTCCACAGTGCCCTCAAGAGCATGGCCACAGCCAGGCCCTGTGAGCCAGGC
CTCCCCAGGGACCTCCAGTGCTGTATTATTCCTTAGTAACTTCAGAGGACCCTGCAGCGATCCCGGGCCAAGGA
AAATGCAGAGGATCTGTTGGCAAGAAGCTGCGCTTGGAGATGGAGGCCGAGACCCCAAGTACTGAGGTGCCACC
TGACCCAGAGCCTGGTGTACCCCTGACACCCCATCCCAACACAGGAGGCCGTGGTGGGACCTGTGTGCACT
TTGTGGGGAACACCTCTATGTCTTGAACGCCCTCTGTGTCAACGGCCATTTCTTCCACCGAGCTGCTTCCGCTG
CCATACCTGTGAGGGCCACACTGTGGCCAGGTGGCTACGAGCAGCACCCAGGAGATGGACATTTCTACTGCCTCCA
GCACCTGCCCCAGACAGACCACAAAGCGGAAGGCAGCGATAGAGGCCCTGAGAGTCCGGAGCTCCCCACACCAAG
TGAGAATAGCATGCCACCAGGCCTCTCAACTCCCACAGCCTCGCAGGAGGGGGCCGCTGTTCCAGATCCCAG
CCAGCCCACCCGTCGGCAGATCCGCCTCTCCAGCCCGAGCGCCAGCGGTTGTCTTCCCTTAACCTTACCCTGA
CCCGGAAATGGAGCCTCCACCAAGCCTCCCCGAGCTGCTCCGCCTTGGCCCGCCACGCCCTGGAGAGCAGCTT
TGTGGGCTGGGGCCTGCCAGTCCAGAGCCCTCAAGCTCTTGTGGCCATGGAGAAGGAGGAAAAAGAGAGTCCCTT
CTCCAGTGAAGAGGAAGAAGAAGATGTGCCTTTGGACTCAGATGTGGAACAGGCCCTGCAGACCTTTGCCAAGAC
CTCAGGCACCATGAATAACTACCCAACATGGCGTGGACTCTGCTGCGCCGTGCGAAGGAGGAGGAGATGAAGAG
GTTCTGCAAGGCCAGACCATCCAACGGCGACTAAATGAGATTGAGGCTGCCTTGAGGGAGCTAGAGGCCGAGGG
CGTGAAGCTGGAGCTGGCCTTGAAGCGCCAGAGCAGTTCCCCAGAACAGCAAAAGAAACTATGGGTAGGACAGCT
GCTACAGCTCGTTGACAAGAAAAACAGCCTGGTGGCTGAGGAGGCCGAGCTCATGATCACGGTGCAGGAATTGAA
TCTGGAGGAGAAACAGTGGCAGCTGGACCAGGAGCTACGAGGCTACATGAACCGGGAAGAAAACCTAAAGACAGC
TGCTGATCGGCAGGCTGAGGACCAGGTCTGAGGAAGCTGGTGGATTGGTCAACCAGAGAGATGCCCTCATCCG
CTTCCAGGAGGAGCGCAGGCTCAGCGAGCTGGCCTTGGGGACAGGGGCCAGGGCTAGACGAGGGTGGGCCGTCT
GCTTTCGTTCCACAAAGAAAGACCTCACCCAGCACAGTGCCACCCCTGTTCATCTGGGCTGCCTGGCAGAGA
GCCTTGCTGTTTACAATTAAAATGTTTCTGCCAC

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FIGURE 2092

GTTCCGGCGCACGTAATCGCCGAGGGGCACGTGCATGCCCCCTGGTTAAGAGTTGCAGGTAGCGGTAGCGATGGAC
ACTCTGGATCGAGTAGTAAAGCCCCAAAACGAAAAGAGCCAAAGAGATTCCCTTGAGAAGAGAGAACCGAAACTCAAT
GAAAAATTATAAAAATGCCATGCTGATTAAAGGGGGAAATGCAATGCAACAGTGACAAAAGTACTTAAAGATGTG
TATGCACTGAAAAAACCATACGGTGTACTATATAAAAAGAAAAATATTACAAGACCTTTTGAGGATCAGACATCA
CTGGAAATCTTTTTCAAAGAAGTCAGATTGTTCTTTATTTCATGTTTGGCTCCCATATAAGAAGCGGCCAAATAAT
CTAGTAATAGGTTCGTATGTATGACTACCATGTGCTGGATATGATTGAATTAGGTATTGAGAATTTGTCTCTCTA
AAAGACATTAAGAACAGTAAATGTCCTGAGGGAACAAAACCCATGCTGATATTTGCTGGCGATGATTCGATGTA
ACAGAAGATTATAGAAGACTAAAAAGTCTTCTTATTGATTTCTTCAGAGGCCCCACAGTATCAAATATCCGCCTG
GCTGGATTAGAGTATGTTCTGCACTTCACTGCACTGAATGGGAAGATTTACTTTTGAAGCTATAAGTTGCTGTTG
AAGAAATCTGGTTGCAGAACACCACGGATTGAATTGGAAGAGATGGGACCCTCATTGGATCTGGTTCTGAGGAGG
ACACACCTGGCATCGGATGACCTTTATAAATTATCTATGAAAATGCCAAAAGCTCTCAAGCCAAAGAAGAAGAAA
AATATTTCCCATGATACTTTTGGTACAACCTTATGGAAGGATTCATATGCAGAAGCAAGACCTAAGCAAACCTACAA
ACCAGGAAAATGAAGGGGTTGAAGAAGCGACCTGCAGAAAGGATAACAGAAGACCACGAGAAAAAGTCAAAAAGA
ATTAAAAAAAATTTGATGGAACTTAGCCAGCCACTACTGTTTCATTGTGTTCTACTTAAGAGAATTATCAAGCGTC
AATCCATTCAGAGTTTCTTATAAGATCTTATTATATATTTTTATAACATGATAATTTTACGATATATTATTATGA
ACAGTAATATACTAGTATTAAAGTGTAAGTAAGCCTTTTATTTGAGACATTACACCCTGGTGTGCCATTTTCTCT
TGTGATATCCCTGCCCCTCCACAAATTCTTCTTCTCATTGGGTGGATGGATGGGTGAGGAGGGATCTCCATAAC
CATTGGGATTTTTTTGAATTTCTGGCCTTAGCTAAAGAAAGCCACAGAAAGCCGACCCGCAGGAGCTGTGTAAA
CAATCTCAGTATGAATTACCTGGAAAGTTAACCTCCTCTCCCAACATGGATCTACATTCTGATTTTTATTTTCTA
CTTTTATTTTGCCCTGAAATCCTACTCGTTGACATTTGAGATTTTAAAGCTTTGTGGCTGAAAATATATAGATCTCT
GAG

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FIGURE 2093

MDTLDRVVKPKTKRAKRFLEKREPKNENIKNAMLIKGGNANATVTKVLKDVYALKKPYGVLYKKKNITRPFEDQ
TSLEFFSKKSDCSLFMFGSHNKKRPNNLVIGRMYDYHVLDMIELGIENFVSLKDIKNSKCPEGTKPMLIFAGDDF
DVTEDYRRLKSLIDFFRGPTVSNIRLAGLEYVLHFTALNGKIYFRSYKLLKKSGCRTPRIELEEMGPSLDLVL
RRTHLASDDLYKL SMKMPKALKPKKKKNISHDTFGTTYGRIHMQQDLSKLQTRKMKGLKKRPAERITEDHEKKS
KRIKKN

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FIGURE 2094

ATGGAACAGTACATCTGTAAAAGGACAAGTGATGGCATCTACATCATAAATCTGAAGAGGACCTGGGAGAAGCTT
CTGCTGGCAGCTCATGCCATTGCTGCCATTGAAAACCCCTGCAGATGTCAGTGTTATATCCTCCAGGAATATTGGC
CAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTC
ACTAACCAGATCCAGGCAGCTTTCTGGGAGCCACGGCTTCTTGTTGTTACTGACCCCAGGGCTGACCACCAGCCT
CTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTATTCTCCTTGTGCTATGTGGACATTGCCATCGCA
TGCAACAACAAGGGAGCTCACTCGGTGGGTTTGATGTGGTGGACACCGGCTCGGGAAGTTCTGCGCATGCGTGGC
ACCATTTCCTGCGAACACCCGTGGGAGGTCAATGCCTGATCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAA
GAAGAGCAGGCTGCTGCTAAAAAAGCTGTGACCAAGAAAGAATTTCAGGGTGAATGGACTGCTTCAGCTCCTGAG
TTCAGTCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGCATGCAGGCCACCGAATGGGTAAAAGCAATCACT
GAATGGGTAGAAGCAACCGCTGAATGGTCTTAA

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FIGURE 2095

MEQYICKRTSDGIYIINLKRTWEKLLLAHAIAAIENPADVSVISSRNIGQRAVLKFAAATGATPIAGRFTPGTF
TNQIQAAFWEPRLLVVTDPRAHQPLTEASYVNLPTIALFSLCYVDIAIACNNKGAHSVGLMWWTPAREVLRMRG
TISCHEPWEMPDLYFYRDPEEIEKEEQAAAKKAVTKKEFQGEWTASAPEFTATQPEVADWSEGMQATEWVKAIT
EWVEATAEWS

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FIGURE 2096

ATGGCAAAGGAAGATAACAGAAGACCCCTCCAGAGAGTGGAAATCCTGAAAATCAAGGAACATTTCTGTATACTCAA
GTGAATGGGAAAGTGGAAATATTTCCCTGAAGTGGAAAGGGATTACAGATGCTGACAATACTTGGGAACCTGAAGAA
AATTTAGATTGTCCAGAATTGATTGAAGCATTTCTTAGCTCTCAGAAAGCTGGCAAACAAAAAGATGACAGCAGT
GGAGAATTGATGTTTCTCATGAAATGGAAAGATTCAGATGAGGCAGACTTGGTGCTGGCAAAGAAGCAAGTATG
AAGTGTCTCAAATTGTAATTGCTTTTATGAAGAGAGACTAACTTGGCATTCTTGTCAGAAAGATGAAGCTCAA
TAA

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FIGURE 2097

MAKEDNRRPSREWNPENQGTFLYTQVNGKVEYFLKWKGFDTADNTWEPEENLDCPELIEAFLSSQKAGKQKDDSS
GELMFLMKWKDSDEADLVLAKEASMKCPQIVIAFYERLTWHSCPEDEAQ

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FIGURE 2098

CTCTTCCGGTTCTAGGCACTTCGGGAGCCGCGGCTTATGGTGCAGACATGGCCAAGTCCAAGAACCACACCACAC
ACAACCAGTCCCGAAAATGGCACAGAAATGGTATCAAGAAACCCCGATCACAAAGATACGAATCTCTTAAGGGGG
TGGACCCCAAGTTCCTGAGGAACATGCGCTTTGCCAAGAAGCACAAACAAAAGGGCCTAAAGAAGATGCAGGCCA
ACAATGCCAAGGCCATGAGTGACGTGCCGAGGCTATCAAGGCCCTCGTAAAGCCCAAGGAGGTTAAGCCCAAGA
TCCCAAAGGGAGTCAGCTGCAAGCTCGATCGACATGCCTACGTTGCCACCCCAAGCTTGGGAAGCGTGCTCTTG
CCCGTATTGCCAAGGGGCTCAGGCTGTGCCGGCCAAAGGCCAAGGCCAAGGCCAAGGATCAAA^bCAAGGCCCAGG
CTGCAGCTCCAGCTTCAGTTCCAGCTCAGGCTCCCAAAGGTACCCAGGCCCTACAAAGGCTTCAGAGTAGATAT
CTCTGCCAACATGAGGACAGAAGGACTGGTGCACCCCCACCCCAACCCCTGGGCTATCATCTGCATGGGGCTG
GGGTCCTCCTGTGCTATTTGTACAAATAAACCTGAGGCAGG

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FIGURE 2099

ACAAAAAGCTTTTACGAGGTATCAGCACTTTTCTTTTATTAGGGGAAGGCGTGAGGAAAGTACCAACAGCAG
CGGAGTTTTAACTTTTAAATAGACAGGTCTGAGTGCCTGAACTTGCCCTTTTCACTTTACTTCATCCTCCAAGGAG
TTCAATCACTTGGCGTGACTTCACTACTTTTAAAGCAAAGAGTGGTGCCAGGCAACATGGGTGACTGGAGCGCC
TTAGGCAAACTCCTTGACAAGGTTCAAGCCTACTCAACTGCTGGAGGGAAGGTGTGGCTGTCACTACTTTTCACT
TTCCGAATCCTGCTGCTGGGGACAGCGGTTGAGTCAGCCTGGGGAGATGAGCAGTCTGCCTTTTCGTTGTAACACT
CAGCAACCTGGTGTGAAAAATGCTGCTATGACAAGTCTTTCCCAATCTCTCATGTGCGCTTCTGGGTCTGCAG
ATCATATTTGTGCTGTACCCACACTCTTGTACCTGGCTCATGTGTTCTATGTGATGCGAAAGGAAGAGAACTG
AACAAGAAAGAGGAAGAACTCAAGGTTGCCCAAAGTATGGTGTCAATGTGGACATGCACTTGAAGCAGATTGAG
ATAAAGAAGTTCAAGTACGGTATTGAAGAGCATGGTAAGGTGAAAAATGCGAGGGGGTGTGCTGCGAACCTACATC
ATCAGTATCCTCTTCAAGTCTATCTTTGAGGTGGCCTTCTTGTGATCCAGTGGTACATCTATGGATTGAGCTTG
AGTGCTGTTTACACTTGCAAAAGAGATCCCTGCCACATCAGGTGGACTGTTTCTCTCTCGCCCCACGGAGAAA
ACCATCTTCATCATCTTCATGCTGGTGGTGTCTTGGTGTCCCTGGCCTTGAATATCATTGAACTCTTCTATGTT
TTCTTCAAGGGCGTTAAGGATCGGGTTAAGGGAAGAGCGACCCCTACCATGCGACCAAGTGGTGTGCTGAGCCCT
GCCAAAGACTGTGGGTCTCAAAAAATATGCTTATTTCAATGGCTGCTCCTCACCACCGCTCCCTCTCGCCTATG
TCTCCTCTGGGTACAAGCTGGTTACTGGCGACAGAAACAATTCTTCTGCGCAATTACAACAAGCAAGCAAGT
GAGCAAACTGGGCTAATTACAGTGCAGAACAAAAATCGAATGGGGCAGGCGGGAAGCACCATCTCTAATCCCAT
GCACAGCCTTTTGATTTCCCGATGATAACCAGAATTCTAAAAAACTAGCTGCTGGACATGAATTACAGCCACTA
GCCATTGTGGACAGCGACCTTCAAGCAGAGCCAGCAGTCTGTGCCAGCAGCAGACCTCGGCCTGATGACCTGGAG
ATCTAGATACAGGCTTGAAGCATCAAGATTCCACTCAATTGTGGAGAGAAAAAAGGTGCTGTAGAAAGTGCAC
AGAGTGTAAATTTGATCCGGTGGAGGTGACTCAACAGCCTTATTCATGAGGCTTAGAAAAACAAAGACATT
AGAATACCTAGGTTCACTGGGGGTGTATGGGGTACTGAGGTGGAGAGGGAGGGGATAAGAGAGGTGCATGTTGGT
ATTTAAAGTAGTGATTCAAAGAACTTAGATTATAAAATAGAGTTCATTAGGTGATACATAGATAAGGGCTTTT
TCTCCCCGCAACACCCCTAAGAATGGTTCTGTGTATGTGAATGAGCGGGTGGTAATTGTGGCTAAATATTTTG
TTTTACCAAGAACTGAAATAATTCTGGCCAGGAATAAATACTTCTGAACATCTTAGGTCTTTTCAACAAGAAA
AAGACAGAGGATTGTCTTAAGTCCCTGCTAAAACATTCCATTGTTAAAAATTTGCACTTTGAAGGTAAGCTTCT
AGGCCTGACCCTCCAGGTGTCAATGGACTTGTGCTACTATATTTTTTTTATTCTTGGTATCAGTTTAAATTCAGA
CAAGGCCACAGAAATAAGATTTTCCATGCATTGTGCAATACGTATATTTCTTTTCCATCCACTTGCACAATATCA
TTACCATCACTTTTTTCATCATTCCCTCAGCTACTACTCACATTCAATTAATGGTTTCTGTAAACATTTTAAAGACA
GTTGGGATGTCACCTAACATTTTTTTTTTTTGGAGCTAAAGTCAGGGAATCAAGCCATGCTTAATATTTAACAATC
ACTTATATGTGTGTCGAAGAGTTTGTGTTTGTGTCATGTATTGGTACAAGCAGATACAGTATAAACTCACAAAC
ACAGATTTGAAAAATAATGCACATATGGTGTCAAATTTGAACCTTTCTCATGGATTTTTGTGGTGTGGGCCAATA
TGGTGTTTACATTATATAATTCCTGCTGTGGCAAGTAAAGCACACTTTTTTTTTTCTCTAAATGTTTTTCCCTG
TGTATCCTATTATGGATACTGGTTTTGTTAATTATGATTCTTTATTTTCTCTCTTTTTTTAGGATATAGCAGTA
ATGCTATTACTGAAATGAATTTCTTTTTCTGAAATGTAATCATTGATGCTTGAATGATAGAATTTTAGTACTGT
AAACAGGCTTTAGTCATTAATGTGAGAGACTTAGAAAAATGCTTAGAGTGGACTATTAATGTGCCTAAATGAA
TTTTGCAGTAACGTGATTCTTGGGTTTTCTTACTTAATACACAGTAATTCAGAACTTGTATTCTATTATGAGTT
TAGCAGTCTTTTGGAGTGACCAGCACTTTGATGTTTGCACTAAGATTTTATTTGGAATGCAAGAGAGGTTGAAA
GAGGATTCAGTAGTACACATACAATAATTTATTTGAACTATATGTTGAAGACATCTACCAGTTTCTCCAAATGC
CTTTTTTAAAACTCATCACAGAAGATTGGTGAAGATGCTGAGTATGACACTTTTCTTCTGATGCATGTGAGCT
ACATAAACAGTTTTGTACAATGAAATTTACTAATTTGTTGACATTCCATGTTAACTACGGTCAATGTTGAGCTT
CATTGCATGTAATGTAGACCTAGTCCATCAGATCATGTGTTCTGGAGAGTGTCTTTATTCAATAAAGTTTTAAT
TTAGTATAAACAT

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FIGURE 2100

MGDWSALGKLLDKVQAYSTAGGKVWLSVLFIFRILLGTAVESAWGDEQSAFRCNTQQPGCENVCYDKSFPI SHV
RFWVLQIIFVSVPTLLYLAHV FYVMRKEEKL NKKEELKVAQTDGVNVDMHLKQIEIKKFKYGIEEHGKV KMRGG
LLRTYIISILFKSIFEVAFLLIQWYIYGFSLSAVYTCKRDPCPHQVDCFLSRPTEKTIFIIFMLVVSLVSLALNI
IELFYVFFKGVKDRVKGKSDPYHATSGALSPAKDCGSQKYAYFNGCSSPTAPLSPMSPPGYKLVTGDRNNSSCRN
YNKQASEQNWANYSAEQNRMGQAGSTISNSHAQPFDFPDDNQNSKKLAAGHELQPLAIVDQRPSSRASSRASSRP
RPDDLEI

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FIGURE 2101

GCTGTGCGTCCGGAAGTGTCTCGCAGATAGTAAATAATCTCGGAAAGGCGAGAAAGAAGCTGTCTCCATCTTGTCT
TGTATCCGCTGCTCTTGTGACGTTGTGGAGATGGGGAGCGTCCTGGGGCTGTGCTCCATGGCGAGCTGGATACCA
TGTTTGTGTGGAAGTGCCCCGTGTTTGCTATGCCGATGCTGTCTAGTGGAACAACCTCCACTGTAAGTAGATTG
ATCTATGCACTTTTCTTGCTTGTGGAGTATGTGTAGCTTGTGTAATGTTGATACCAGGAATGGAAGAACAACCTG
AATAAGATTCTCGATTTTGTGAGAATGAGAAAGGTGTTGTCCCTGTAAACATTTGGTTGGCTATAAAGCTGTA
TATCGTTTGTGCTTTGGTTTGGCTATGTTCTATCTTCTCTCTTTACTAATGATCAAAGTGAAGAGTAGCAGT
GATCCTAGAGCTGCAGTGCACAATGGATTTTGGTTCTTTAAATTTGCTGCAGCAATTGCAATTATTATTGGGGCA
TTCTTCATTCCAGAAGGAACCTTTACAACCTGTGTGGTTTTATGTAGGCATGGCAGGTGCCTTTTGTTCATCCTC
ATACAACCTAGTCTTACTTATTGATTTTGCACATTCATGGAATGAATCGTGGGTTGAAAAATGGAAGAAGGGAAC
TCGAGATGTTGGTATGCAGCCTTGTATCAGCTACAGCTCTGAATTATCTGCTGTCTTTAGTTGCTATCGTCCTG
TTCTTTGTCTACTACACTCATCCAGCCAGTTGTTTCAGAAAACAAGGCGTTCATCAGTGTCAACATGCTCCTCTGC
GTTGGTGCTTCTGTAATGTCTATACTGCCAAAAATCCAAGAATCACAACCAAGATCTGGTTTGTACAGTCTTCA
GTAATTACAGTCTACACAATGTATTTGACATGGTCAGCTATGACCAATGAACCAGAAACAAATTGCAACCCAAGT
CTACTAAGCATAATTGGCTACAATACAACAAGCACTGTCCCAAAGGAAGGGCAGTCCAGTGGTGGCATGCT
CAAGGAATTATAGGACTAATCTCTTTTGTGTGTGATTTTATTCCAGCATCCGTACTTCAAACAATAGTCAG
GTTAATAAACTGACTCTAACAAGTGATGAATCTACATTAATAGAAGATGGTGGAGCTAGAAGTGATGGA¹CTACTG
GAGGATGGGGACGATGTTACCCGAGCTGTAGATAATGAAAGGGATGGTGTCACTTACAGTTATTCTCTCTTTCAC
TTCATGCTTTTCTGGCTTCACTTTATATCATGATGACCTTTACCAACTGGTACAGGTATGAACCCCTCTCGTAG
ATGAAAAGTCAGTGGACAGCTGTCTGGGTGAAAATCTCTTCAGTTGGATTGGCATCGTCTGTATGTTGGACA
CTCGTGGCACCCTTGTCTTACAAATCGTGATTTTGACTGAGTGAAGCTTCTAGCATGAAAGTCCCACCTTGTAT
TATTGCTTATTTGAAAACAGTATTCCCAACTTTTGAAAGTTGTGTATGTTTTTGGCTTCCCAGTGAACCTTCTCCA
GTGTTCTGGCATGAATTAGATTTTACTGCTTGTCACTTTGTATTTTCTTACCAAGTGCATTTGATATGTGAAGTA
GAATGAATTGCAGAGGAAAGTTTTATGAATATGGTGATGAGTTAGTAAAGTGGCCATTATGGGCTTATCTCT
GCTCTATAGTTGTGAAATGAAGAGTAAAAACAAATTTGTTTGAATTTTAAAAATTATATTAGACCTTAAGCTGT
TTTAGCAAGCATTAAAGCAAATGTATGGCTGCCTTTTGAATATTTGATGTGTGCTGGCAGGATACCTGCAAG
AACATGGTTTATTTTAAAAATTTATAAACAAGTCACCTAAATGCCAGTTGTCTGAAAAATCTTATAAGGTTTTACC
CTTGATACGGAATTTACACAGGTAGGAGTGTTTAGTGGACAATAGTGTAGGTTATGGATGGAGGTGTGGTACT
AAATTGAATAACGAGTAAATAATCTTACTTGGGTAGAGATGGCCTTTGCCAACAAAGTGAAGTGTTTTGGTTGTT
TTAAACTCATGAAGTATGGGTTTCACTGGAAATGTTTGAAGTCTGAAAGGATTTAGACAAGGTTTTGAAAAGGATA
ATCATGGGTTAGAAGGAAGTGTGTTGAAAGTCACCTTTGAAAGTTAGTTTTGGGCCAGCACGGTAGCTCACCCTTGT
AATCCCAGCACTTTGGGAGGCTGAGGTGGGTGAGATTACTTGAGCCAGGAATTCAAGACCAGCCTGGGCAACATG
GTGAAACCTGTCTTATAAAAAATAATCTGGGCTTTGTAGCATATGCCTGTGGTCCCAGCTACTGAGGAGGCTG
AGGTGGGAGGATTGCTTGAGCCCAGGAGGCAGAGTTGCAGTGAGCCAAGGTCACGTCAGTCTAGCCTGG
GCAACAGAGTAAGACAAAAAATATATATATTGAAAATCAAAGGAGGCAAAATTTTGACAGGGAAGGAAGTAA
CTGCAAAACACTAGGCTTTAGTAGGTACTTATATAAAATCTAGTCCAGTTCTCTCATTTAAAAAATGAAGACAC
TGAAATACAGACTTAAATAGCTCAGATAGCTAATTAGGAAATTTCAAGTTGGCCAATAATAGCATTCTCTCTGAC
ATTTAAAAATAATTTCTATTCAAATACATGCATAATTGATTTTACACCTCATTACTGGTGGATAATTTATGTGA
TGTTGATTGCTGGTGTCCAGCATGACCCATAAACAGGTGAGAAGATGATGGAATGTTTTAGAATAAACTCCTGC
TTATAGTATACTACACAGTTCAAAGAGTGTGTTAAATGCTTTTGTATTTACTGCCATGTAATTGAAATATATAGA
TTATTGTAACCTTTCAACCTGAAATCAAGCAGTATGAGAGTTAGTTATTTGTATGTGTCACTAGTGTCTAATG
AAGCTTTTAAATCTACAATTTCTCTTTAAAAATATTTATTAATGTGAATGGAATATAACAATTCAGCTTAATT
CCCCAACCTTATTCTGTGTGTAGACATTGTATTCCACAATTTTGAATGGCTGTGTTTTACCTCTAAATAAATGAA
TTCAGAG

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FIGURE 2102

MGSVLGLCSMASWIPCLCGSAPCLLCRCCPSGNNSTVTRLIYALFLLVGVCVACVMLIPGMEEQLNKIPGFCENE
KGVVPCNILVGYKAVYRLCFGLAMFYLLLSLLMIKVKSSSDPRAAVHNGFWFFKFAAAIAIIIGAFFIPEGTFIT
VWFYVGMAGAFCFILIQVLVLLIDFAHSWNESWVEKMEEGNSRCWYAALLSATALNYLLSLVAIVLFFVYYTHPAS
CSENKAFISVNMLLCVGASVMSILPKIQESQPRSGLLQSSVITVYTMYLWTSAMTNEPETNCNPSLLSIIGYNTT
STVPKEGQSVQWWHAQGIIGLILFLLCVFYSSIRTSNNSQVNKLTLTSDESTLIEDGGARSDGSLEDGDDVHRAV
DNERDGVITYSYSFFHFMLFLASLYIMMTLTNWRYEPRSREMKSQWTAVVVKISSSWIGIVLYVWTLVAPLVLTNR
DFD

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FIGURE 2103

GGGGACCCCTCTCCTGACGCTGCGCTCTCTGCGAGGCAACCTTTCACGTCCATCGCTTGTTCATCTTAGGATCCCCA
TGTATATTTAGCCAGATTGGCTAGTTCTGGGGAGGCAGCATGGTGGGACGATTCTGTCCCGAGTCCCCGCCAGG
CTTTGTTTCGGGTCGCCGCTACCAGCGCGGTCTCCCTAGATCCTCCATCCGGGGAACCTCGCCCCGGGTGCGGGTA
CCCCGGGCGCGCAGCGCTGCCTCGAGGGTGTATGGATGCACCGCGCGGCGAGAGAGACCGGGGGCTGGGCCTG
GGAGACCCTAGCGGGGCGGGGGCGAAGAAGAGATTTATTCCAGTGAAACAACAACCTGGAACCTCAAGTAACCTC
TCCCAGAGTACTTCCAACCTCTGGGTGGCCCCAAATCCAATAATGCCACCACCAAGGCGGCTGGTGGTCCCTG
CAGTCAACAGCCAGTCTCTTCGTGGTCTCACTCTCTCTTCTGCATCTCTACTCTTAAGAGACTCAGGCCAAGAAA
CGTCTTCTAAATTTCCCCATCTTCTAAACCCAATCCAATGGCGTCTGGAAGTCCAATGTGGCAAGGAAAAACAG
GTCTTCATCGAATCTACTAATTCCACACCTTTTATTGACACAGAAAATGTTGAGAATCCCAAATTTGATTGATTT
GAAGAACATGTGAGAGGTTTGACTAGATGATGGATGCCAATATTAAATCTGCTGGAGTTTCATGTACAAGATGAA
GGAGAGGCAACATCCAAATAGTTAAGACATGATTTCCCTGAATGTGGCTTGAGAAATATGGACACTTAATACTA
CCTTGAAAAATAAGAATAGAAATAAAGGATGGGATTGTGGAATGGAGATTCAAGTTTCATTTGGTTCATTAAATCT
ATAAGGCCATAAAACAGGTAATATAAAAAGCTTCCATGATTCTATTTATATGTACATGAGAAGGAATCCAGGT
GTTACTGTAAATTCCTCAACGTATTGTTTCGACAGCACTAATTTAATGCCGATATACTCTAGATGAAGTTTACAT
TGTTGAGCTATTGCTGTTCTCTTGGGAACGAACCTCACTTTCCTCTGAGGCTTGGATTGACATTGCATTTGA
CCTTTTATGTAGTAATTGACATGTGCCAGGGCAATGATGAATGAGAATCTACCCCCAGATCCAAGCATCCTGAGC
AACTCTTGATTATCCATATTGAGTCAAATGGTAGGCATTTCTATCACCTGTTTCCATTCAACAAGAGCACTACA
TTCATTTAGCTAAACGGATTCCAAAGAGTAGAATTGCATTGACCAGCACTAATTTCAAAATGCCTTTTATTATTA
TTATTTTTTAGACAGTCTCACTTTGTGCGCCAGGCCGGAGTGCAGTGGTGGATCTCAGATCAGTGTACCATTTG
CCTCCCGGGCTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCATGCCCG
GCTAATTTTTGTAAATTTAGTAGAGACAGGGTTTACCATTGTTGCCAGGCTGGTTTCGAACCTCCTGACCTCAGG
TGATCCACCCGCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCGCGCCAGCCATCAAAATGCTT
TTTATTTCTGCATATGTTGAATACTTTTTACAATTTAAAAAATGATCTGTTTTGAAGGCAAAATTGCAAACTT
GAAATTAAGAAGGCAAAATGTAAAGGAGTCAAACTATAAATCAAGTATTTGGGAAGTGAAGACTGGAAGCTAA
TTTGATTAAATTCACAACTTTTATACTCTTTCTGTATATACATTTTTTTCTTTAAAAAACAACCTATGGATCA
GAATAGCCACATTTAGAACACTTTTGTATCAGTCAATATTTTAGATAGTTAGAACCTGGTCTTAAGCCTAAA
AGTGGGCTTGATTCTGCAGTAAATCTTTTACAACCTGCCTCGACACACATAAACCTTTTAAAAATAGACACTCCC
CGAAGTCTTTTGTTCGCATGGTCACACACTGATGCTTAGATGTTCCAGTAATCTAATATGGCCACAGTAGTCTTG
ATGACCAAAGTCCCTTTTTTCCATCTTTAGAAAACACATGGGAACAAACAGATCGAACAGTTTGAAGCTACTG
TGTGTGTGAATGAACACTCTTGCTTTATTCAGAATGCTGTACATCTATTTTGGATTGTATATTGTTGTGTGA
TTTACGCTTTGATTTCATAGTAACTTCTTATGGAATTGATTGTCATTGAACACAACTGTAAATAAAAAGAAA

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FIGURE 2104

CAGAAGCGGCTAGTGGCGGCTGCCTGCGTCCCCAACCCCTCCGCGCAGCGCTCGCGACACGCGTGCCAGGAGTG
GGAGCGAGCGGCGGGGCCAGCTGCGTTCTGAGCCTGGGCGCAGCTGCCATCTGCTCTGGGAAGCACCAGGGTGTC
CCCGCCGCCCTCAGCTCGAAGTCAGCCACCATGGAGGCGCAGGCACAAGGTTTGTGGAGACTGAACCGTTGCAA
GGAACAGACGAAGATGCAGTAGCCAGTGCTGACTTCTCTAGCATGCTCTCTGAGGAGGAAAAGGAAGAGTTAAAA
GCAGAGTTAGTTCAGCTAGAAGACGAAATTACAACACTACGACAAGTTTTGTGAGCGAAAGAAAGGCATCTAGTT
GAGATAAAACAAAACTCGGCATGAACCTGATGAATGAATTAAAAACAGAACTTCAGCAAAAGCTGGCATGACATG
CAGACTACCACTGCCTACAAGAAAACACATGAAACCCTGAGTCACGCAGGGCAAAAGGCAACTGCAGCTTTTCAGC
AACGTTGGAACGGCCATCAGCAAGAAGTTCGGAGACATGAGTTACTCCATTTCGCCATTCCATAAGTATGCCTGCT
ATGAGGAATTCTCCTACTTTCAAATCATTGAGGAGAGGGTTGAGACAACTGTCACAAGCCTCAAGACGAAAGTA
GGCGGTACGAACCCTAATGGAGGCAGTTTTGAGGAGGTCTCAGCTCCACGGCCCATGCCAGTGCCAGAGCTTG
GCAGGAGGCTCCCGGCGGACCAAGGAGGAGGAGCTGCAGTGCTTAAGTCCAGCCAGCGTGCAGCTGCATCCAGAAA
CCGGCCACTACCCAGCCCATCTCTGCCTGTGCTTATCCAGATAAGAAGACCAAAATCCCGCTGGGAAAAACCCAG
GCCTTGACATTGTTATTCAAATGGCCCCCTCCAGAAAGTTTAAATGATTTCCATTTGTATTTGTGTTGATGATGGAC
CACTTGACCATCACATTTCACTATTATAGATGACTGTCACATTTTAAATGTTCCCACTTGAGCAGGTACACAA
CTGGTCATAATTCCTGTCTGTGTAATTCGATGTATATTTTCCAAACATGTAGCTATTGTTTGCTTTGATTTTTG
CTTGGCTCCTTTATGATGTGCATGTCCTGAAGGCTGAATGAACAGTCCCTTTCAGTTCAGCAGATCAACAGGA
TGGAGCTCTTCATGACTGTCTCCAGCAATAGGATGATTTACTATAAAATTCATCCAACACTACTTGTGATCTCTCTC
ACCTACATCAATTATGTATGTTAATTTAGCAATTAAGAATTGATTTT

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FIGURE 2105

MEAAQAGLLETEPLQGTDEDAVASADFSMLSEEEKEELKAELVQLEDEITTLRQVLSAKERHLVEIKQKLGNNL
MNELKQNFSSKSWHDMQTTTAYKKTHETLSHAGQKATAAFSNVGTAKKFGDMSYSIRHSISMPAMRNSPTFKSF
EERVETTVTSLKTKVGGTNPNGGSFEEVLSSTAHASAQSLAGGSRRRTKEEELQC

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FIGURE 2106

GGAGTTGGAAGGGGAGGAGGAAGAGGGGGAGCAGGAAGAGGGGCAGAAGGAAGAAGAAGAGGGGGAGGAGAAAGA
GATAGAAGAGTAAGAGGAGGGGGAAGAAAGACAAGGGGAAGGGGAGGAGGAGGAGGACGGGGAGGAGCTTCGCCG
CGGCCTGCTCCGCCCAGCCGGGGTCGGTGGCCGCATGGCTTCGGTCTCCTCTGCGACCTTCTCGGGCCACGGGGC
TCGGTCCCTACTGCAGTTCTGCGGCTGGTAGGGCAGCTCAAGAGAGTCCCACGAAGTGGCTGGGTATACAGAAA
TGTCCAGAGGCCGGAGAGCGTTTTAGATCACATGTACCGGATGGCAGTTATGGCTATGGTGATCAAAGATGACCG
TCTTAACAAAGACCGATGTGTACGCCTAGCCCTGGTTTCATGATATGGCAGAAATGCATCGTTGGGGACATAGCACC
AGCAGATAACATCCCCAAAGAAGAAAAACATAGGCGAGAAGAGGAAGCTATGAAGCAGATAACCCAGCTCCTACC
AGAGGACCTCAGAAAGGAGCTCTATGAACCTTGGGAAGAGTACGAGACCCAATCTAGTGCAGAAGCCAAATTTGT
GAAGCAGCTAGACCAATGTGAAATGATTCTTCAAGCATCTGAATATGAAGACCTTGAACACAAACCTGGGAGACT
GCAAGACTTCTATGATTCCACAGCAGGAAAATTCATCACCCCTGAGATAGTCCAGCTTGTTTCTGAACCTTGAGGC
AGAAAGAAGCACTAACATAGCTGCAGCTGCCAGTGAGCCACACTCCTGAGACACTCTCTAAATTGCTGCACTCCT
GTAACAAACATTATTTTTCCATTTTCATTGTATTGTGTTTTGCCATTGTTGGTCTGTTGATTTCCCTAGATGTGAG
TCTGTTTGTTCATTGTCTGAACCTTCAGCAAGAAATGTGATACAACCTTGGGCACTAAAAGAAGCCACAGAACA
GGAAGCGGTCATGAAAGTGCCATGGATGAACACTGGAGGTGGCAGTGCCTGTTTATGAACATAAATAAATAT
TAAACACCTAAAATATTAGAAATTTATTGGAGATTTAAATCATCTTATTCTGACTTAATTACCGATATCCCCG
AAGGCTAGGTTTCATTGAATAATAGAAAATTTTCATTATGATTGCTTTAAGAACAGATTCTTCAGCTGATTTAGTG
ATAAGAATCCAGAAAAGAAAATGTACTAGTGATGATTCTCTCCCCAGATGAAATTGCTGCCTTATTCAGATTTA
CTCTCTTGAGCCAGATTTTGAATTTCACTGCAGACTGCTTCAGACTTCTAATCATAGGCTTGTAACCTACTAAT
AGGCTCTGCCCTCTTCCCAATACTTTTTGTCATTTAGAGATATAAACCGGGGCATATAAAAATGCAACTTGAT
TCCTTTGTATATTTTCCCTGTCTGACTTATAAATCTTGAGACCTTATTGTAAAAGCATGTATCATCAGGTGAG
AAATATAAATAGGAAGTGGGGTCATTGAGCCTCAGGTAGGGAATATATCAACCCGATTCTTCTCTCTTTTCCC
TTTTATAGGATAAATAATCC

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FIGURE 2107

GACGGCAGCCGCCCGGCCGACAGCCCCGAGACGACAGCCCGGCGCGTCCCGGTCCCCACCTCCGACCACCGCCA
GCGCTCCAGGCCCCGCGCTCCCCGCTCGCCGCCACCGCGCCCTCCGCTCCGCCCGCAGTGCCAACCATGACCGC
CGCCAGTATGGGCCCCGTCCGCGTCGCCCTTCGTGGTCTCTCTCGCCCTCTGCAGCCGGCCGGCCGTGGGCCAGAA
CTGCAGCGGGCCGTGCCGGTGCCCGGACGAGCCGGCGCCGCGCTGCCCGGCGGGCGTGAGCCTCGTGCTGGACGG
CTGCGGCTGCTGCCGCGTCTGCGCCAAGCAGCTGGGCGAGCTGTGCACCGAGCGCGACCCATGCGACCCGACAAA
GGGCCTATTCTGTCACTTCGGCTCCCCGGCCAACCGCAAGATCGGCGTGTGCACCGCCAAAGATGGTGCTCCCTG
CATCTTCGGTGGTACGGTGTACCGCAGCGGAGAGTCTTCCAGAGCAGCTGCAAGTACCAGTGCACGTGCCTGGA
CGGGGCGGTGGGCTGCATGCCCCCTGTGCAGCATGGACGTTTCGTCTGCCACGCCCTGACTGCCCTTCCCCGAGGAG
GGTCAAGCTGCCCGGGAAATGCTGCGAGGAGTGGGTGTGTGACGAGCCCAAGGACCAAAACCGTGGTTGGGCCTGC
CCTCGCGGCTTACCGACTGGAAGACACGTTTGGCCAGACCCAACTATGATTAGAGCCAACTGCCTGGTCCAGAC
CACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATCTCCACCCGGGTACCAATGACAACGCCTCCTG
CAGGCTAGAGAAGCAGAGCCGCTGTGCATGGTCAGGCTTGCGAAGCTGACCTGGAAGAGAACATTAAGAAGGG
CAAAAAGTGCATCCGTACTCCCAAATCTCCAAGCCTATCAAGTTTGAGCTTTCTGGCTGCACCAGCATGAAGAC
ATACCGAGCTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCACCCCCACAGAACCACCACCCTGCCGGT
GGAGTTCAAGTGCCCTGACGGCGAGGTCATGAAGAAGACATGATGTTTATCAAGACCTGTGCCTGCCATTACAA
CTGTCCCGGAGACAATGACATCTTTGAATCGCTGTACTACAGGAAGATGTACGGAGACATGGCATGAAGCCAGAG
AGTGAGAGACATTAACCTATTAGACTGGAACTTGAAGTATTACATCTCATTTTTCCGTAAAAATGATTTTCAGT
AGCACAAGTTATTTAAATCTGTTTTCTAACTGGGGGAAAAGATTCCACCCAATTCAAAACATTGTGCCATGTC
AAACAAATAGTCTATCAACCCAGACACTGGTTTTGAAGAATGTTAAGACTTGACAGTGGAACCTACATTAGTACAC
AGCACCAGAATGTATATTAAGGTGTGGCTTTAGGAGCAGTGGGAGGTTACCAGCAGAAAGGTTAGTATCATCAGA
TAGCATCTTATACGAGTAATATGCCTGCTATTTGAAGTGAATTGAGAAGGAAAATTTTAGCGTGCTCACTGACC
TGCCTGTAGCCCCAGTGACAGCTAGGATGTGCATTCTCCAGCCATCAAGAGACTGAGTCAAGTTGTTCTCTTAAGT
CAGAACAGCAGACTCAGCTCTGACATTCTGATTGCAATGACACTGTTTCAAGGAATCGGAATCCTGTGATTAGACT
GGACAGCTTGTGGCAAGTGAATTTGCCTGTAACAAGCCAGATTTTTTAAATTTATATTGTAAATATTGTGTGTG
TGTGTGTGTGTATATATATATATATGTACAGTTATCTAAGTTAATTTAAAGTTGTTTGTGCCTTTTTATTTTT
GTTTTAATGCTTTGATATTTCAATGTTAGCCTCAATTTCTGAACACCATAGGTAGAATGTAAAGCTTGTCTGAT
CGTTCAAAGCATGAAATGGATACTTATATGGAAATTTCTGCTCAGATAGAATGACAGTCCGTCAAAACAGATTGTT
TGCAAAGGGGAGGCATCAGTGTCTTGGCAGGCTGATTCTAGGTAGGAAATGTGGTAGCCTCACTTTTAAATGAA
CAAATGGCCTTTATTAATAAAGTGAAGTACTCTATATAGCTGATCAGTTTTTTCACCTGGAAGCATTGTGTTCTAC
TTTGATATGACTGTTTTTCGGACAGTTTATTTGTTGAGAGTGTGACCAAAAGTTACATGTTTGCACCTTTCTAGT
TGAAAATAAAGTGTATATTTTTTCTATAAA

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FIGURE 2108

CACTGCTGACATAACTCCCTTGGTCTTCAATTTAATAGTTGTTAAGTTTTTGCCACATTGCATATGCCTTTCAT
TTATAATTTATTTACCCTGCTTGACTTAGTTTTGGGAATTCGTAAATTTAAAGGTGTGTGATTCTGTTGCATC
TCCCTGTCACTGTGACACACCTAGATGTGTGTTACTTCAATTTAAATTTCTCAAATTTAATTTTGATTGCTTCAG
CAGGGAAAATATCTCAATAATGTAAAATAATTAAGGTCTATACATGGGTTGTATTTTTCTGGTTCACAACAGCA
CAAAGTGTCTTTCAATTTTTTTGTTGGTTTTCTTTTAAGATCTTTTTTACCCTGAAGTCGGTGAATACTTTTCTAG
TTTATTTGATACCTTTCTGTGTATATATTAAGCTTTTGCTGTAGATTGCCTAGTAAATTAAGGATAGGTT
GTTTTACATATGGTCTATTTAAGTCTGATGTTTACGGGGGAAAGTGTAGTTACTAAAAATGTTTAACATAATTT
GGAAGAAGAGTATGAACAACCAATACCAATACCTATTGCGTTTGGATTCTTAAGACCCAGTTTGTATTCCACT
AAACTAGTTATCTTAACCATATCATCTGGTTTTGTGGGCCATTATTTACCTTCCCTTATGCTTATAGAATAATG
GTTAATATTTTTAGGTCAAAATTAATTTTGGAAAGTAACTTTCCACAAATTAAGTGTTTTGAGCACCTGACAAA
ATTTAGTGTTTACCTTGCGTGCCATTTGTGTCTATCTTCAATAAAAAGCAATTGGAGGTTTGCCAGTTATCTC
ACTCCCTTTTTAAATCAATGTTGTTTAAATGCATAATCTGAATCTGTAAAGAGGATTATCTTAGTTTATACT
TTGTATTTTATAATGTTCTTGTATAGCAGCTCGGTACTGAAGGCGGTGTTAACTTGGCAAGCTCTGAGACTTCA
AATGGGAACAAATAGTAAGTAGCTAAGTAAACCACATCTTTGCAACCAAAATAAAGATGAGTTAAAGGTATCTG
GTTAGGCCATTTTCATGAGGACTATGCTCTGGTGGGACCACAGGTCACCTGATACTTAGTGCTGTGCTGCCGTGA
ACCTCAGCATGGAGACATCAACCACATGCACTGTGGCCATTGAGCATCTTTCTGGAGCACCAGTTCACTCCAGGTT
TTTATTTTAGGGTGTCTATCGATTTTACCTACTTTGTCTAGACTGGTAGAAGTTGCTTTGCATATCAGAAAACTCC
ATTTTTTCCACAAAAGGGATTACAGAAAATCTTTTGTGAGTGAGTGATTGGAACCTTAGAGACTCCTGTTGCCA
GAATCAGACTGCCCTAGAACAGAATGGACAATGCAGGGAGGAGAATTCACACAAACAGCACCTGTTCTGAGGCC
GTGCCAGCCCACCAGGCCTGCTCAAATGTGGTCTTTACTTCAAGTGCACAGAGGCACATGAGGTTTCTGGTGATA
AACCAGCGTCTTACCCTGTTTTAAAGTCCCATCCCCATGGCTTTCACAATCAGTTCCGTTTTTTTGCTGTACT
TGATAAAATGTTTATCTCATACAGGTCAAGTACATTTACTTCTATTACAGTGAGTACCAATAACAACAAAAG
CGCTTACAAATTTGGGGGGCGTGATTTTAGTACCTTTATTTGAAGTGAATCATTTTAAATTATTTATTTTAA
CTGGGGCAGTTATCAGTGGTTTAAACAGGAACCTTAGTGGCTTCAATTTGTTTAAAGAACATATTAAGTTTGAGG
GAAAAATTTCCCATGAAATATTTGGAACGTAAGAGTAGTATTGATTAGAGAAAAATTAATAAGAAACATAGTATG
GTAGCCAAATTTTTTAAAAATCTTGAACCTTTCTGTAGGTCAGTTTGAAGTGTGAAAAGTGAAGGTTGC
CCTGTGGAGATTAAATTAGAGTTGTTTTCATACTGACAGCATGGTGAATCCATTGAGTCAAAGTGAAGAATT
TCCTCATCAAGTGACTATACATTTGTTTTGTGTGCTCAAAGAAATACTCAAACACAGACTGATATTAACCAGC
CAGGTAAATTGAACGACAATGTGGCATTAGGTATTGGCTGTTTATTGGTCGTTAAATACTATGTTTTGCAATA
TGATTGATGGTAAAAGAGTGATGTATATGATACTAGAGTAGCTGTTTTTTTAGTAGGTGTGGGACCATCTCT
TTTACAAGTGCAACTCAGTCTAGGACAGCCATGGATGCAGTGTCTGGAGTTGGACCCTCTGAGCCCCTGGCTGC
CCCAGTAGCATCTGCATTGGTGACCAAGGACACTGCACTTTGAAGAGGTCGCCACTGGGTTATTTAGTGCTTCA
CTGCTTTTGTAAAAATTTGTAATTTTGTACAAAAAGTTGTGTTTTTGAATATCAATTGTTTAGACACACCT
ACAATGATAAATAAGTGCCCTTTAAAGGCCCTCTTCCATGAAATACATCTGTGTTTAGCAAGGAAAGTACAAA
ATAGTTTATGTAGTTGGTATAATTTTTATTGTGTCTTCATGTAGAAAAATGAATGTCATAATAAATATAAAA
CTTACGTAAG

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FIGURE 2109

MDNAGRRIHTNSTCSEACASPPGLLKCGLYFKCTEAHEVSGDKPASRYRCFKVPSPWLSQSVFFLLYLIKCLFSY
RSSTFTSIHSEYPITTKALTNLGGVILVPLFEV

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FIGURE 2110

GTGACTGCTTAGAAAAC TGACAGCATCTGATGAAATTAGCGAATAAGAACATCAACCATGTCTTACACTCCAGG
AGTTGGTGGTGACCCCGCCCAGTTGGCCCAGAGGATCTCTTCTAACATCCAGAAGATCACACAGTGTTCTGTGGA
AATACAAAGAACTCTGAATCAACTTGGAACACCTCAAGATTCACCTGAATTGAGGCAACAGTTGCAACAGAAGCA
GCAGTATACTAACCAGCTTGCCAAAGAAACAGATAAGTACATTAAAGAGTTTGGATCTCTGCCCCACCACCCCCAG
TGAACAGCGTCAAAGGAAAATACAGAAGGATCGCTTAGTGGCAGAGTTCACAACATCACTGACAAACTTCCAGAA
GGTCCAGAGGCAGGCTGCTGAGCGAGAGAAAGAGTTTGTGCTCGAGTAAGAGCCAGTTCCAGAGTGTCTGGCAG
TTTTCTGAGGACAGCTCAAAAGAAAGGAATCTTGTATCCTGGGAAAGCCAAACTCAACCTCAAGTGCAGGTGCA
GGATGAAGAAATTACAGAGGATGACCTCCGCTTATTTCATGAGAGAGAATCTTCTATCAGGCAACTTGAAGCTGA
TATTATGGATATTAATGAAATATTTAAAGATTGGGAATGATGATTCATGAACAAGGAGATGTAATAGATAGCAT
AGAAGCCAATGTGGAATATGCAGAGGTGCACGTTTCAGCAAGCAAAATCAGCAGCTGTCAAGGGCAGCAGATTATCA
GCGCAATCCAGAAAAACCTGTGCATCATCATTCTTATCCTTGTCATTGGAGTTGCGATTATCAGTCTCATCAT
ATGGGGATTGAACCACTGAAGTTATAAAGGAGCACACTGTCGCACTACATTGTCTAAATTATGTAGGAAGATTCC
TGTAATCATGTTTTTTTAAATTATTATTTTAAAGCTATTGTATAAAGGATGGTTCCCATACTTTGTTATTTTTATT
GGGGGGGTTGGGGTGGTTCCTTTGGATTAAATCTGATATTTTCTAATACTGAAAGATTTTCTAAATGTCACTGCT
GACATAACTCCCTTGCTCTCAATTTAATAGTTGTTAAGTTTTTGCCACATTGCATATGCCTTTTCAATTTATAAT
TTATTTACCCTGCTTGACTTAGTTTTGGGAATTCGTAAATTTAAAGGTGTGTGATTCTGTTTGCATCTCCCTGT
CACTGTGACACACCTAGATGTGTGTTACTTCAATTAAAATTCTCAAATTTAATTTTGATTGCTTCAGCAGGGAA
AATATTCTCAATAATGTAAAATAATTAAGGTCTATACATGGGTGTGATTTTTCTGGTTCACAACAGCACAAAGTG
TCTTTCATTTTTTTGTTGGTTTTCTTTTAAGATCTTTTTTACCCTGAAGTCGGTGAATACTTTTCTAGTTTATTT
GATACTCTTCTGTGTATATATTAAGCTTTTGCTGTAGATTGCCTAGTAAATTAAGGATAGGTTGTTTTTA
CATATGGTCTATTTAAGTCTGATGTTTACGGGGGAAAGTGTAGTTACTAAAAATGTTTAACATAATTTGGAAGAA
GAGTATGAACA

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FIGURE 2111

CTTTCCCTGCCGCCGCCGAGTCGCGCGGAGGCGGAGGCTTGGGTGCGTTCAAGATTCAGCTTCACCCGTAACCCA
CCGCCATGGCCGAGGAAGGCATTGCTGCTGGAGGTGTAATGGACGTTAATACTGCTTTACAAGAGGTCTGAAGA
CTGCCCTCATCCACGATGGCCTAGCACGTGGAATTCGCGAAGCTGCCAAAGCCTTAGACAAGCGCCAAGCCCATC
TTTGTGTGCTTGCAATCCAACCTGTGATGAGCCTATGTATGTCAAGTTGGTGGAGGCCCTTTGTGCTGAACACCAAA
TCAACCTAATTAAGGTTGATGACAACAAGAACTAGGAGAATGGGTAGGCCTTTGTAAAATTGACAGAGAGGGGA
AACCCCGTAAAGTGGTTGGTTGCAGTTGTGTAGTAGTTAAGGACTATGGCAAGGAGTCTCAGGCCAAGGATGTCA
TTGAAGAGTATTTCAAATGCAAGAAATGAAGAAATAAATCTTTGGCTCACAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 2112

MAEEGIAAGGVMDVNTALQEVLTALIH DGLARGIREAAKALDKRQAHLCVLASNCDEPMYVKLVEALCAEHQIN
LIKVDDNKKLGEWVGLCKIDREGKPRKVVGCSVVVKDYGKESQAKDVIEEYFKCKK

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FIGURE 2113

GGCCGCCTCGCACCCGGAACAACAAAGCAAGGAAGACGGAGTCCGAGCCTCGGGGGCTCCTAGCAACGGGCCGGG
GCGGGAGTTCCATGGAGACTGGGGAGCGCGCCCGTCTCATCCTCATCCTTGTCCTCCAGCTTCTCCTTCGCATCC
GACGCAACCGGCAGCAGCGCTGCCGCCGCGTCTCAGCCACCGCTCCCTCTTCCCACGGATGTGATCTTCGTGGT
GGAAAGCTAAATTTTAAACCACCCCAATGGATGCAGACAGTGATGTTGCATTGGACATTCTAATTACAAATGTA
GTCGTGTTTTTAGAACAAGATGTCATTTAACTTAAGGAAGATTGCTTTGGAAGGAGCAAATGTAATTTATAAA
CGTGATGTTGGAGTAATATTAATGAAGCTTAGAAAACCTAGAATTACAGCTACAATTTGGTCCTCAGGAAAAAT
ATTTGCACTGGAGCAACAAGTGAAGAAGAAGCTAAATTTGGTGCCAGACGCTTAGCCCGTAGTCTGCAGAACTA
GGTTTTCAGGTAATATTTACAGATTTTAAGGTTGTTAACGTTCTGGCAGTGTGTAACATGCCATTTGAAATCCGT
TTGCCAGAATTCACAAAGAACAATAGACCTCATGCCAGTTACGAACCTGAACTTCATCCTGCTGTGTGCTATCGG
ATAAAATCTCTAAGAGCTACATTACAGATTTTTTCAACAGGAAGTATCACAGTAACAGGGCCCAATGTAAAGGCT
GTGCTACTGCTGTGGAACAGATTTACCCATTTGTGTTTGAAGCAGGAAAGAAATTTATAATTCACCACTTAA
TTGTTAGAACTCTCTAACTGAGCACCTTTTAAACCTGCTGCACATTGGACTCAAAAGGAAAAGTGGACCAACAAT
AATTGAGGAAATAGACTCTTTTATTCATTACGGCTACAGTGTAAGCTCCAGTCCCTTTGGATTTTATTCCAAAC
CTTGCTGTAATATAAAAAGGAAGTTTACAAGACATGATATTGCTGCTTTTACAAAAGGACATTCTATTTATTTTCG
CAGTAATTCTCATGTCCCCATAAGCAGAGCTGTCACAGTGTGCACTACCTTAGATTGTTTTATTGTCGTCATTGT
TATTTTTTTCATTTGAGCTAATGTGTTTTATTTGTGAATAGTCTTTTACATTTTGTATGCTGAATATGGGCA
CCAAAGAACCTGTAAAGTTATCTTTTCAATTGAATGTGCACAAATAAAAGTTTGA

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FIGURE 2114

GCCGGGGAGGGACGCAGGCAGGCGGGCGGGCAGCGGGAGGCGGCAGCCCGGTGCGGTCCCCGCGGCTCTCGGCGGA
GCCCCGCGCCCGCCGCGCC**ATG**CCCCGAAGACCCCGGCACAGCATATATAGCAGTGACGAGGATGATGAGGACTT
TGAGATGTGTGACCATGACTATGATGGGCTGCTTCCCAAGTCTGGAAAGCGTCACTTGGGGAAAAACAAGGTGGAC
CCGGGAAGAGGATGAAAAACTGAAGAAGCTGGTGGAAACAGAATGGAACAGATGACTGGAAAGTTATTGCCAATTA
TCTCCCGAATCGAACAGATGTGCAGTGCCAGCACCGATGGCAGAAAGTACTAAACCTGAGCTCATCAAGGGTCC
TTGGACCAAAGAAGAAGATCAGAGAGTGATAGAGCTTGACAGAAATACGGTCCGAAACGTTGGTCTGTTATTGC
CAAGCACTTAAAGGGGAGAATTGGAAAAAATGTAGGGAGAGGTGGCATAACCACTTGAATCCAGAAGTTAAGAA
AACCTCCTGGACAGAAGAGGAAGACAGAATTATTTACCAGGCACACAAGAGACTGGGGAACAGATGGGCAGAAAT
CGCAAAGCTACTGCCCTGGACGAACTGATAATGCTATCAAGAACCACTGGAATTCTACAATGCGTCGGAAGGTCTGA
ACAGGAAGGTTATCTGCAGGAGTCTTCAAAAGCCAGCCAGCCAGCAGTGGCCACAAGCTTCCAGAAGAACAGTCA
TTTGATGGGTTTTGCTCAGGCTCCGCCACAGCTCAACTCCCTGCCACTGGCCAGCCCACTGTTAAACAACGACTA
TTCCTATTACCACATTTCTGAAGCACAAAATGTCTCCAGTCACTGTTCCATACCCTGTAGCGTTACATGTAAATAT
AGTCAATGTCCCTCAGCCAGCTGCCGCAGCCATTAGAGACACTATAATGATGAAGACCCTGAGAAGGAAAAGCG
AATAAAGGAATTAGAATTGCTCCTAATGTCAACCGAGAATGAGCTAAAAGGACAGCAGGTGCTACCAACACAGAA
CCACACATGCAGTACCCCGGGTGGCACAGCACCACCTGCGGACCACACCAGACCTCATGGAGACAGTGCACC
TGTTTCCTGTTTGGGAGAACACCACTCCACTCCATCTCTGCCAGCGGATCCTGGCTCCCTACCTGAAGAAAGCGC
CTCGCCAGCAAGGTGCATGATCGTCCACCAGGGCACCATTCTGGATAATGTTAAGAACCTCTTAGAATTTGCAGA
AACACTCCAATTTATAGATTCTTTCTTAAACACTTCCAGTAACCATGAAACTCAGACTTGGAAATGCCTTCTTT
AACTTCCACCCCCCTCATTGGTCACAAATTGACTGTTACAACACCATTTCATAGAGACCAGACTGTGAAAACCTCA
AAAGGAAAATACTGTTTTTAGAACCCAGCTATCAAAAGGTCAATCTTAGAAAGCTCTCCAAGAACTCCTACACC
ATTCAAACATGCAGTTCAGCTCAAGAAATTAAATACGGTCCCCTGAAGATGCTACCTCAGACACCCTCTCATCT
AGTAGAAGATCTGCAGGATGTGATCAAAACAGGAATCTGATGAATCTGGAATTGTTGCTGAGTTCAAGAAAATGG
ACCACCTTACTGAAGAAAATCAAACAAGAGGTGGAATCTCCAAGTATAAATCAGGAACTTCTTCTGCTCACA
CCACTGGGAAGGGGACAGTCTGAATACCCAAGTTCACGCAGACCTCGCCTGTGGCAGATGCACCGAATATTCT
TACAAGCTCCGTTTTAATGGCACCAGCATCAGAAGATGAAGACAATGTTCTCAAAGCATTACAGTACCTAAAAA
CAGGTCCCTGGCGAGCCCCCTTGCAGCCTGTAGCAGTACCTGGGAACCTGCATCCTGTGGAAAGATGGAGGAGCA
GATGACATCTTCCAGTCAAGCTCGTAAATACGTGAATGCATTCTCAGCCCGGACGCTGGTCACTG**TG**AGACATTTC
CAGAAAAGCATTATGGTTTTTCAAGCACTTCAAGTTGACTTGGGATATATCATTCTCAACATGAAACTTTTCAT
GAATGGGAGAAGAACCTATTTTTGTTGTTGTTACAACAGTTGAGAGCAGCACCAAGTGCATTAGTTGAATGAAGT
CTTCTTGGATTTACCCAACTAAAAGGATTTTTTAAAAATAAATAACAGTCTTACCTAAATTATTAGGTAATGAAT
TGTAGCCAGTTGTTAATATCTTAATGCAGATTTTTTAAAAAAAACATAAAATGATTTATCTGTATTTTAAAGGA
TCCAACAGATCAGTATTTTTTCTGTGATGGGTTTTTGAATTTGACACATTAAAAGGTACTCCAGTATTTTAC
TTTTCTCGATCACTAAACATATGCATATATTTTTTAAAAATCAGTAAAAGCATTACTCTAAGTGTAGACTTAATAC
CATGTGACATTTAATCCAGATTGTAATGCTCATTATGTTAATGACATTGAAGGTACATTATTGTACCAAAC
CATTTTATGAGTTTTCTGTTAGCTTGCTTTAAAAAATTATTACTGTAAGAAATAGTTTTTATAAAAAAATTATATTTT
TATTCAGTAATTTAATTTTGTAAATGCCAAATGAAAAACGTTTTTTGCTGCTATGGTCTTAGCCTGTAGACATGC
TGCTAGTATCAGAGGGGCAGTAGAGCTTGGACAGAAAGAAAAGAACTTGGTGTAGGTAATTGACTATGCACTA
GTATTTTCAGACTTTTTAATTTTATATATATATACATTTTTTTTCTTCTGCAATACATTTGAAAACCTGTTTGGG
AGACTCTGCATTTTTTATTGTTGTTTTTTGTTATTGTTGGTTTTATACAAGCATGCGTTGCACTTCTTTTTTGGG
AGATGTGTGTTGTTGATGTTCTATGTTTTGTTTTGAGTGTAGCCTGACTGTTTTTATAATTGGGAGTTCTGCATT
TGATCCGCATCCCTGTGGTTTTCTAAGTGTATGGTCTCAGAACTGTTGCATGGATCCTGTGTTTGAACCTGGGGA
GACAGAACTGTGGTTGATAGCCAGTCACTGCCTTAAGAACATTTGATGCAAGATGGCCAGCACTGAACTTTTGA
GATATGACGGTGTACTTACTGCCTTGTAGCAAAATAAAGATGTGCCCTTATTTT

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FIGURE 2115

MARRPRHSIYSSDEDEDFEMCDHDYDGLLPKSGKRHLGKTRWTREDEKLKKLVEQNGTDDWKVIANYLPNRTD
VQCQHRWQKVLNPELIKGPWTKEEDQRVIELVQKYGPKRWSVIAKHLKGRIGKQCRERWHNHLNPEVKKTSWTEE
EDRIIYQAHKRLGNRWAEIAKLLPGRTDNAIKNHWNSTMRRKVEQEGYLQESSKASQPAVATSFQKNSHLMGFAQ
APPTAQLPATGQPTVNNDYSYYHISEAQNVSSHVPYPVALHVNIVNVPQAAAAIQRYNDEDPEKEKRIKELEL
LLMSTENELKGQQLPTQNHTCSYPGWHSTTIADHTRPHGDSAPVSCLGHHSTPSLPADPGSLPEESASPARCM
IVHOGTILDNVKNLLEFAETLQFIDSFLNTSSNHENSLEMPSLTSTPLIGHKLTVTTPFHRDQTVKTQKENTVF
RTPAIKRSILESSPRTPTPFKHALAAQEIKYGPLKMLPQTPSHLVEDLQDVIKQESDESGIVAQENGPPLLKK
IKQEVESPTDKSGNFFCSHHWEGDSLNTQLFTQTSPVADAPNILTSSVLMAPASEDEDNVLKAFTVPKNRSLASP
LQPCSSTWEPASCGKMEEQMTSSSQARKYVNAFSARTLVM

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FIGURE 2116

CTCCCTGTGCGCCGCGGAGGGGCGGGGGCAGGACGCGCAACTCCGGCCGGAGCTGTCCGGGGTCGTGAGCCGGCCC
CGCCTTGGTGGCGGCGCCCCCTCGCGGTCCAGAGGCAGACGCATCGGGTGGGCTCGGGTCTCCAGCCCGGCCGGG
AGGAGGGACCGGGTCTGCGGAGCGGGGACTCGGGGCCCTCGGCGGGGCGCGCACACGCAGGCGGGGCGGCCGGG
TGCGGGGCCTCTGCGCGGCTGACCAGGCTCCCAGAGCGTCAGCGCGGCCATGGCCGAGCCGCTCCAGCCAGACC
CCGGGGCGGGCGAGGACGCGGCGGGCCCAAGCTGTGGAGACGCGGGGCTGGAAGGCCCCGGAGGACGCCGGCCCC
AGCCCGGAAGTTATGAGATCCGACACTATGGACCAGCCAAGTGGGTGAGCACGTCCGTGGAGTCTATGGACTGGG
ATTGAGCCATCCAGACGGGCTTTACGAACTGAACAGCTACATTCAAGGCAAAAACGAGAAAAGAGATGAAAATAA
AGATGACAGCTCCAGTGACAAGCTACGTGGAGCCTGGTTGAGGTCCCTTTTAGTGAGTCTACCATACCATTTC
TGTATATTCCCTCTGAACAGCAATTTGATCCACCCAGGCCCTTAGAGTCAGATGCTTCATTGAAGATAGAGCCG
AAATGACTGTGTTTGTACGGTCTTTTCGATGGATTTTCTAGTGCCCAAAAGAATCAAGAACAATTTTGACATTAG
CAAGCATTTTAAGGGAAGATGGAAAAGTTTTCGATGAGAAGGTTTACTACACTGCAGGCTACAACAGTCCTGTCA
AATTGCTTAATAGAAATAATGAAGTGTGGTTGATTCAAAAAATGAACCCACCAAAGAAAACGAATGAGAAAAAT
GAAAGGAAGTTCTGCTGTCAGAGGCAAAACATCTGTTTATCATAGACATCAACATGACCTATAAGTAAAGTGCCT
GTCTAGTGCTTCTATTGAGAGTACTACTATTAATTAAGCTTATTTCCAATGTGCCTTTTAAATGCTTGAAGTTT
TATCTACATACACAGGTAACAGAGGACAGTAGTCTGTAAACATATAAATCGGTCATAACTATCGTGGTCTTTATT
TCTGTGAGGATC

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FIGURE 2117

MAEPLQPDPGAEDAAAQAVETPGWKAPEDAGPQPGSYEIRHYGPAKWVSTSVESMDWDSAIQTGFTKLNSYIQG
KNEKEMKIKMTAPVTSYVEPGSGPFSESTITISLYIPSEQQFDPPRPLESDVFIEDRAEMTVFVRSFDGFSSAQK
NQEQLLTLASILREDGKVFDEKVYYTAGYNPVLNRRNNEVWLIQKNEPTKENE

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FIGURE 2118

AGAACCACCACAACAAATAACCAGCCTGGCAGTCAATTCTTCCTATGGACTGGTGGTTTTTGGCAATTGCAATGG
CATTGCTATGGTTGACTACCTCCAGAAAGCAGTGCTGCTCAACCTGGGCACTATTGAATTATAGGCTCTAATGA
TCCTTATCGGAGAGAACCCGATCTCCTCGTAAATCTCGACAGCCTTCAGGAGCCGGTCTGTGTGATATTAGTGA
AGGGACTGTTGTTCCAGAGGATCGCTGCAAATCTCAACCTCTGCAAAGATGTCAAGGAAGTTAAGCTTACCTAC
TGACCTAAAGCCTGATTTAGATGTAAAGGATAACTCCTTTAGCCGATCACGGAGTTCAAGTGTAACAAGCATTGA
CAAAGAATCCCGAGAAGCGATCTCCGCTCTTCATTCTGTGAAACGTTTACTCGAAAGACGGACTCGTCCCCTTC
CCCTTGTCTATGGGTTGGAACAACGCTAGGAACAGTGCTTGTTCATTGCACTGAACCTTCCCCCAGGGGGAGAGCA
AAGACTTCTTCAGCCAGTAATTGTGTCTCCAAGTGGTACTATATTGAGGTTAAAAGGTGCAATCTTGAGAATGGC
ATTTCTGGATACCACAGGCTGCTTAATACCACCTGCGTATGAACCTGGAGAGAGCACAAATGTTCTGAGAAAA
AGACGAAAAGGAGAAATTGAAAAACGGCGGCCCTGCTCAGTATCCCCCTCCTCTTCTCAGGAAATTAGTGAAAA
CCAGTATGCAGTGATATGTTCTGAAAAGCAAGCAAAAGTAATCTCACTGCCAACCAGAACTGTGCTTATAAGCA
AAATATTACAGAGACCTCGTTTGTGCTTCGTGGAGATATTGTAGCATTGAGTAACAGTATCTGCCTTGCCCTGTT
CTGTGCCAATGGACATATAATGACTTTTAGTTTGCCAAGTTTAAAGACCTCTGTTGGATGTGATTACTTGCCCT
TACCAATATGCCGATAGCCAGAACGTTCTGCTTTACCAACAATGGACAAGCATTATACCTTGTTTCACCTACAGA
AATCCAGAGACTTACTTATAGTCAAGAGACCTGTGAAAATCTTCAGGAAATGTTGGGTGAACCTCTTCACTCCTGT
AGAAACACCTGAAGCACCAAACAGGGGATTCTTTAAAGGCTTATTTGGAGGTGGTGCACAACTCTCTTGACAGAGA
AGAACTATTTGGAGAATCGTCCTCAGGAAAGGCTTCAAGGAGCCTTGACAGCATATTCTTGCCCTGGTGGCAT
TGAAGGCGTAAAAGGGGCAGCATCTGGAGTTGTTGGTGAATTAGCACGAGCCAGGCTGGCACTAGATGAAAGAGG
GCAGAACTTGGCGATCTGGAAGAAAGAACTGCGGCCATGTTATCAAGTGCAGAGTCATTTCTAAACATGCTCA
TGAGATTATGTTGAAATACAAAGATAAGAAGTGGTACCAGTTCTGACAACCAGAAATCCAATAAGTCCAACCTCAG
CCAGAAGGAAAAAAGTTTTCCATTTTTATTACATTTCTTAGGAAAGTTAACGTTAAAGGGATGTTTCGTCACTGAA
TACTGTTCTTTCCTAGCACAGTCATGCACTGTTTTACCTCAGTCATGTGGCTTTAACTGAGGAGTGTTACACGC
ACTCGAAATGGAGTATATGGTGTGTGCCAGTTATGAGTTGACCATTGGGAATTAACAGGTCACACGTGACAGA
TGAAGAAACCAAGGGGGCTGCTGAGGAGACCTGGTGCAGGGACTAATCCTGGATCATTCTGTATTAACTTTCA
TATGCCAAAAGGGTTTGTGCCGTTTTATCTGCCATCAGTGTTTGACCTGTTTAGGGCAGAGGCAATAAGTCAGAA
GTCTTGAAGTTGAAATAGTTATATGTGTGTCATTGGACTGGATTATAAACAGCTGTCTTGGAATTTCCCTCTCTT
AACACTGACTGGTCATCAGTATCATTAGTGAAAAAGAAACAAATTGTTTGTATCATCTCTTTAGACAGATAAGC
TGAATGGTGGGCTTTAAATAATAAAAACATACACATAGTTGACTTGTGTATGAGCTACTCTTGGAATCTTGTTAT
TATAGACTTGTTAGTTTATATTTTGTCAAAAGCAAAACAAGAAGATACATCACTTTTCATTGAAAAGAAAAG
TGTAAGCATGACTGAATTGCTCATCTCTGGGAGTTTCCATGTAGTGGCTATGCAGTGTGGAAAGTGAGAAAA
ACCTCCATTGTGGTGAGGAGAATACTTCAATGTCCCTTGTCCTTGTTCTCATTAATTCAGCTAAAGGTGGATTTG
ACCAAAATAATGCTGGTTAAATTTGTAGAAATGTTGAAATTGGCTGTGTTTTAAATTTTGCTTGAATTTTATAA
AATGTTTAAACCAATGTACCTTTGCATTCTTTAATTAATAATGCTT

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FIGURE 2119

TTTTTCGTCTGGGCTGCCAACATGCCATCCAGACTGAGGAAGACCCGGAACTTAGGGGCCACGTGAGCCACCGC
CACGGCCGCATAGGCAAGCACCGGAAGCACCCGGCGGCCGCGTAAATGCTGGTGGTCTGCATCACCACCGGATC
AACTTCGACAAATACCACCCAGGCTACTTTGGGAAAAGTTGGTATGAAGCATTACCACTTAAAGAGGAACCAGAGC
TTCTGCCCAACTGTCAACCTTGACAAATTGTGGACTTTGGTCAGTGAACAGACACGGGTGAATGCTGCTAAAAAC
AAGACTGGGGCTGCTCCCATCATTGATGTGGTGCGATCTGGCTACTACAAAGTTCTGGGAAAGGGAAAGCTCCCC
AAGCAGGCTGTCACCGTGCAGGCCAAATTCTTCAGCAGAAGAGCTGAGGAGAAGATTAAAGAGTGTGGGGGGGCC
TGTGTCTGGTGGCTTGAAGCCGCATGGAGGGAGTTTCATTAAATGCTAACTACTTAAAAAAAAAAAAAGAAGAA
GAAGAAGAAGAAAAA

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FIGURE 2120

MP SRLRKTRKLRGHVSHRHGRIGKHKHPGGRGNAGGLHHHRINFDKYHPGYFGKVGMMKHYHLKRNQSF CPTVNL
DKLWTLVSEQTRVNAAKNKTGAAP IIDVVRSGYYKVLGKGKLPQAVTVQAKFFSRRAEEKIKSVGGACVLVA

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FIGURE 2121

ATGCGGTCCCGGGTTCTGTGGGGCGCTGCCCCGTGGCTCTGGCCCCCGGGCCGTTGGCCCAGCCCCGGGCC
CTGAGCTCCGGTAGCCCCCGCTGGAGGAGCTGTTACCCGGGGCGGGCCCTTGCGGACCTTCCTCGAGCGCCAG
GCGGGGTCTGAAGCCCATTTGAAGGTCAGGAGGCCGAGTTGCTGGCGGTGATCAAAGTCTGAACGAGAAGGAG
CGGGAGCTCGGGGAGACTGAGCACTTGCTGCACGGTAAGGTCGGGGCCGGGGGAGAGGCGTCAGAGCACATTCT
TGACTCTTCGTTTGACTTTTCCACTGCCCCACACTACCCGAGTTTGAAACTCTTTACTCACTTGCAGCCGTTTTTA
TTTTGGATCAGAGGTCAGGACATCATTACGTGCTGTGATCCCATCCTCTCCTGTGGGCTCTCTTGCTCCTTTG
CCACGGCGCTCTGCCGCCTTTTACATGCTTATTAGTTGTGGACTCGGGCAAGAGCTCATTAGCTCAGCAAGGATA
AATAAGGCACTGTCCCTGTGATGGGCTCCACAGCGGTGTTTCTCAAAGTGTGGTGTGGAGACCCATTTCAGTAG
TATCAGGGCAGTGCTTGTAAATAGCAGACTTAGGACTCAGAATCTCAGACCTATACGTGGGTAAAGGTACTAAAT
TGGGAAATTCAGTATGGCCTAAGTATAGAATAGGTGGGAGATGATGTCATAGAAACATGAAGCCAGAAAAATAGT
TAAGAACCTTGCAAGACAAAGAATTTGGATTTATTTTTATAGACCATGGAAAGTTAGCAAATGTTTTTAAGCAG
AGAATTCACGTCTTTGTAAAGAAAAGTTAATGGTGGCATGCGCTGAGGATAAATTGGAGTATTCTCCAGAAACGC
TGGTGGCTGACAGGCCAGGGAGGAGGCAGTTGAAACAATCCAAAGAAGAAATGGTGATAGGCATAGTTCTGACTC
ACAAAACATTTTGAGAAACAAGTTAGGATTTAGTGGCTTATGCCCTGAGAAGGATGAGGGAGAGAGTTAGTTCTA
AGAAAAGTCTTAGGTTTCTGGCTTCAGCACGAGTGGTACTGTTAATTAAGATGAAAGTATAAAAGTTGGACCGAA
TTTTTTAAAAGATGAGTTTGCATTGAATGCCATATTAAGTTAAAAATACCTGTGAAAAGGAATTCCAATAAG
ATATCTGTACTAGTCTAGGAGAAAAAATTACTGACATAGGAGAAAAATTGAGCCCAATAATCATATGAGAGCTC
TCGAGATATACAGTACGTGGTAAATTAAACCTTAGAAGTAGATGAGAACACTCAGGGAAAATGTGTTAAGATAGA
AACAAGTCTAACAAGGCCAGAAATACACAGTATTTGAGGAGCAGGCAGAGAAGAAGGCTATAAAAGGTCAAGAAA
AAAAACAGCCAGAGCTTTGTGACCTGAAGTAGATAAAATAAATGAAGCTGTAGAAGCCAAATAGAAAATTTCAAGAA
GTAAGAGATCCTTGCCAGGCGTGGTGGCTCACGCCCTCTAATTCAGCACTTTGAGAGGCTCAGGTGGGCCGATC
ACTTGAGCCCAGGAGTTCGAGACCAGCCTGGGTAAACATGGCAAAACCCTGTCTCTACAAACAATGCAAAATTAGC
TGGGCATGGTGGTGGCTGCCTGTGGTCCCAGCTACTTGAGAGGCTGAGGTGGGAGAATCGCTTGAACCCGGGAGG
TGGAGGTTGCAGTGAGCCAAGATGGTGCCACTGCATTCCAGCCTGGGTGACAGCGCAAGACCTGCCTC

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FIGURE 2122

ATGCGGTCCCGGGTTCTGTGGGGCGCTGCCCGGTGGCTCTGGCCCCGCCGGGCCGTTGGCCCAGCCCCGCCGGCCC
CTGAGCTCCGGTAGCCCCGCCGCTGGAGGAGCTGTTACCCGGGGCGGGCCCTTGC GGACCTTCCTCGAGCGCCAG
GCGGGGTCTGAAGCCCATTTGAAGGTCAGGAGGCCGAGTTGCTGGCGGTGATCAAAC TGCTGAACGAGAAGGAG
CGGGAGCTGCGGGAGACTGAGCACTTGCTGCACGATGAGAATGAAGATTTAAGGAACTTGCAGAGAATGAAATC
ACTTTGTGTCAAAAAGAAATAACTCAGCTGAAGCATCAGATTATCTTACTTTTGGTTCCCTCAGAAGAAACAGAT
GAAAATGATTTGATCCTGGAAGTAACTGCAGGAGTTGGAGGTCAGGAGGCAATGTTGTTTACATCAGAGATATTT
GATATGTATCAGCAATATGCTGCATTTAAAAGATGGCATTTTGAAACCCTGGAATATTTTCCAAGTGAAGTAGGT
GGCCTTAGACATGCATCTGCCAGCATTGGGGGTTCAGAAGCCTATAGGCACATGAAATTTGAAGGAGGTGTTTAC
AGAGTACAAAGAGTGCCAAAGACAGAAAAGCAAGGCCGCTCCATACTAGCACCATGACTGTAGCAATATTACCC
CAGCCTACTGAGATTAATCTGGTGATTAATCCGAAAGATTGAGAATTGACACTAAGCGAGCCAGTGGAGCTGGG
GGGCAGCATGTAAATACCACGGACAGTGCTGTCCGGATAGTTTATCTTCCAACAGGTGTTGTTTCTGAATGTCAA
CAAGAGAGATCTCAGCTGAAAAATAAAGAGCTGGCTATGACAAAGTTACGTGCAAACTGTACAGCATGCATCTA
GAAGAAGAAATAAATAAAAGACAGAAATGCTAGAAAAATTCAGATTGGAAGTAAAGGAAGATCAGAGAAAATAAGA
ACATATAATTTTCCACAGAACCGGGTCACAGATCACAGAATAACAAGACGCTGCATGATCTTGAACTTTTATG
CAAGGAGATTATCTACTGGATGAACTTGTACAGTCATTGAAGGAATACGCCGATTATGAATCTTTAGTAGAAATT
ATTTCCCAAAAAGTTTAA

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FIGURE 2123A

CAAAAATCAGTCTGATCTCGGGAAACCTGGAGAAAATTTATTTTCTGTACTCTAATGTTCTTTTCATTTTGGTGACC
ATCAAGGTGCTGGGAGAGGAATTAGATGGCTGTAATTCAAAGTTAATGGAATTAGATGCAGCAGTACAGAAATTC
TTGGAACAGAATGGCCAACTGGGTAAGCCACTGGCCAAGAAGATAGGAAAACCTGACTGAACTTCACCAGCAGACC
ATTAGACAAGCTGAGAATCGGCTCTCCAAGCTCAATCAGGCAGCATCACATTTAGAAGAATACAATGAAATGCTT
GAATTAATTTTGAAGTGGATTGAAAAAGCTAAAGTCTTTGGCTCATGGAATATTGCATGGAATTCTGCAAGCCAG
CTTCGGGAACAATATATTTTTGCATCAGACCCCTGCTAGAAGAAATCCAAAGAAATTGACAGTGAGCTGGAAGCAATG
ACTGAGAAATTACAGTACCTCACTAGCGTGTACTGTACAGAAAAATGTCTCAGCAAGTGGCAGAACTGGGACGG
GAGACTGAGGAGTTGCGACAGATGATCAAAATTCGTTTGCAGAACCTCCAAGATGCAGCTAAGGATATGAAAAA
TTTGAAGCAGAGTTGAAAAAGTTACAAGCTGCCTTGGAGCAAGCCCAGGCAACACTGACTTCTCCAGAAGTTGGA
CGTCTCAGTCTCAAGGAGCAGCTCTCTCATCGGCAGCATTGTGTGTCTGAGATGGAGTCACTGAAGCCGAAGGTG
CAAGCAGTGACAGCTCTGCCAGAGTGCCCTCCGGATCCCCGAGGATGTGGTTGCCAGCTTACCTCTCTGTCTATGCT
GCTCTGCGGCTGCAGGAAGAGGCCAGCCGGCTGCAGCACACCGCCATCCAGCAGTGTAAACATCATGCAGGAAGCT
GTGGTACAATATGAACAATATGAGCAAGAAATGAAACATCTCCAGCAACTGATAGAAGGAGCTCACAGAGAGATT
GAGGATAAACCTGTTGCCACCAGTAACATACAGGAGCTGCAGGCTCAGATTTCTCGGCATGAGGAGCTGGCGCAG
AAAATTAAGGGCTACCAGGAGCAGATCGCTTCTTTGAATTCCAAGTGCAAGATGCTGACGATGAAAGCCAAGCAC
GCCACCATGCTGCTGACGGTGACCGAGGTCGAGGGGCTGGCGGAAGGGACAGAGGACCTGGATGGGGAGCTCCTC
CCCACGCCCTTCGCCCCACCCCTCTGTGGTCATGATGACTGCAGGTCGCTGTACACTTTGCTGTACCCGGTCACT
GAGGAGTCTGGGGAGGAGGGAACCAACAGTGAGATTTCTCTCCACCTGCCTGTCTGCTCCCTTACCTGTGGCT
AATACAGATGCTTCTGTTAACCAGGACATTGCATATTACCAAGCCTTGTCTGCTGAGAGGTTGCAGACAGATGCT
GCAAAAATTCACCCAGCACATCCGCATCCAGGAGTTCTATGAACCGGGATTGGAGCCATCCGCTACTGCCAAA
CTGGGTGATTTGCAGCGTTCTTGGGAAACCTTAAAGAATGTGATCAGTGAGAAGCAGCGCACACTCTATGAAGCT
TTGGAACGCCAGCAGAAGTACCAGGACTCCCTCCAGTCCATCTCTACGAAGATGGAGGCCATTGAGCTGAAACTC
AGTGAGAGCCCAGAGCCTGGCAGGAGTCCAGAAAGCCAGATGGCTGAACATCAGGCATTGATGGATGAGATTCTC
ATGCTCCAGGATGAAATCAATGAGCTCCAGTCTCTCTCGCAGAGGAGCTGGTATCCGAGTCTTGTGAGGCCGAC
CCTGCGGAGCAGCTGGCCTTGCACTCCAGCTCACTGTCTTAGCCGAGCGAATGTCCACCATCAGGATGAAAGCC
TCGGGGAAACGGCAGCTTTTGGAGGAGAAGTTGAATGATCAGCTGGAGGAACAAAGGCAGGAACAGGCCCTGCAG
AGGTATCGCTGTGAAGCCGATGAGCTGGACAGCTGGCTCTTGAAGTACCAAGGCCACTCTGGACACTGCGCTGAGT
CCACCCAAGGAGCCCATGGACATGGAGGGCCAGCTTATGGACTGCCAGAATATGCTGGTGGAAATAGAGCAGAAG
GTGGTGGCTTTATCAGAATGTCACTCCACAATGAGAACCTGCTGCTGGAGGGCAAAGCTCACACCAAGGACGAG
GCCGAGCAGCTGGCTGGAAAGCTGAGAAGGCTCAAGGGGAGCCTGCTGGAGCTGCAGAGAGCCCTGCATGATAAG
CAGCTCAACATGCAGGGAACAGCACAGGAGAAGGAGGAGAGCGATGTTGACCTAACAGCCACGAGAGCCCCGGC
GTCCAGGAATGGCTGGCCCAAGCTCGCACCATGAGCCAGCAGCGGACAGCAGTCTCCAGCAACAAAAGAG
TTAGAACAGGAATTAGCCGAGCAGAAGAGTCTCCTTCGCTCAGTAGCCAGTCTGTGGAGAGGAGATTCTAATTCAA
CATTGCGGGCAGAGACCTCTGGTGATGCTGGCGAAAAACCTGATGTGTTATCCAGGAGTTGGGGATGGAAGGG
GAGAAATCATCCGCTGAAGACCAGATGAGAATGAAATGGGAAAGCCTACATCAAGAATTTAGTACCAAGCAGAAA
CTACTACAGAAATGTTCTGGAACAGGAACAAGAGCAAGTGCTTTATAGCAGGCCAAATCGACTCTTGTCTGGTGTG
CCACTGTACAAAGGGGACGTGCCAACCAGATAAATCTGCAGTTACATCTTGTCTGGATGGACTGAACCAAGCC
TTCGAGGAGGTTTATCCAGAGTGGAGGGGCAAAGAGGCAGAGTATACACTTGGAGCAGAAGTTGTATGATGGA
GTCTCAGCCACCTCTACTTGGTTGGATGACGTTGAAGAACGTTTATTTGTTGCCACAGCACTTTTACCAGAAGAA
ACAGAGACTTGTCTCTTCAACCAAGAGATTCTTGCCAAAGACATTAAGGAAATGTCTGAAGAAATGGATAAGAAC
AAAACTTGTTTTCCCAAGCTTTTCCAGAGAATGGTGATAATCGAGATGTTATTGAAGATACTTTGGGTTGTCTT
TTGGGCAGGTTATCCTTGCTAGACTCAGTAGTGAATCAACGATGTCATCAGATGAAAGAAAGACTTCAGCAATA
CTAAATTTCCAGAATGATCTGAAAGTGCTGTTTACATCACTGGCTGACAACAAATACATCATTCTGCAAAAACCTG
GCAAATGTGTTTGAACAGCCCGTAGCAGAACAAATAGAGGCAATACAACAGGCTGAAGATGGACTCAAAGAATTT
GATGCAGGAATCATTGAATTAAGAGGCGTGGTGACAAGCTACAGGTCGAGCAGCCGTCCATGCAAGAACTCTCC
AAGTCCAGGACATGTATGATGAGCTGATGATGATCATTGGCTCCCGAGGAGTGGTCTGAATCAGAACCTTACA
CTCAAGAGTCAGTATGAGAGGGCCCTACAAGATCTGGCTGACCTGCTAGAACTGGTCAAGGAGAAGATGGCAGGA
GACCAGAAAATCATCGTGTCTTCCAAAGAGGAAATCCAGCAACTACTTGACAAACATAAGGAATACTTTTCAGGGC

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FIGURE 2123B

CTGGAATCTCATATGATCTTGACTGAAACACTCTTCAGAAAGATAATCAGCTTTGCAGTCCAAAAGGAAACCCAG
TTCCATACAGAGCTGATGGCTCAGGCTTCTGCTGTACTGAAACGGGCTCACAAGAGGGGTGTGGAGCTGGAGTAC
ATTCTAGAGACGTGGTCCCATCTGGATGAGGACCAGCAGGAGCTCAGCAGACAGCTGGAGGTGGTGGAAAGCAGC
ATCCCAAGCGTGGGTCTGGTGGAGGAGAACGAGGACAGGCTTATTGACCGCATAACACTCTACCAGCATTAAAA
TCTAGCCTTAATGAATACCAGCCCAAATTATATCAAGTATTAGATGATGGGAAACGACTTCTGATATCCATCAGC
TGCTCAGATCTAGAAAGCCAATAAATCAACTTGGAGAGTGTGGCTAAGTAACACCAATAAAATGTCTAAGGAA
CTTCACAGACTGGAAACAATATTGAAACACTGGACCAGATATCAAAGTGAATCTGCAGATCTAATTCAGTGGTTA
CAATCTGCAAAAGACCGGCTAGAATTTTGGACTCAGCAATCTGTGACAGTCCCACAAGAGCTGGAAATGGTCCGT
GATCATCTAAATGCTTTTCTGGAGTTTTCTAAAGAAGTGGATGCCAATCTTCCCTGAAATCATCTGTTCTGAGT
ACTGGAATCAGCTCCTTCGACTAAAAAAGGTGGACACAGCCACGCTGCGCTCTGAGCTGTGCGCATTGATAGC
CAGTGGACTGACCTGCTAACCAATATCCCAGCCGTCCAGGAGAAGCTCCACCAGCTCCAGATGGATAAACTGCCT
TCCCGCCATGCCATTTCTGAAGTCATGAGTTGGATTTCTCTAATGGAAAATGTTATTGAGAAGGATGAAGATAAT
ATTAATAATTCATAGGTTACAAGGCAATTCATGAATACCTTCAGAAATATAAGGGTTTAAAGATAGACATTAAC
TGTAACAGCTGACAGTGGATTTTGTGAACAGTCCGTGCTACAAATCAGCAGTCAGGATGTGGAAAGTAAGCGT
AGTGATAAGACTGATTTTGTGAGCAACTTGGAGCAATGAATAAAAGTTGGCAAATCTGCAAGGTCTAGTAAT
GAGAAGATCCAGCTGTTGGAAGGCTTATTGGAATCTTGGTCAGAATATGAAAATAATGTACAATGTCTGAAAACA
TGGTTTGAAACCCAGGAAAAGAGACTAAACAACAGCATCGAATTGGAGATCAGGCTTCTGTTCAAAATGCACTG
AAAGACTGTCAGGATCTGGAAGATTGATTAAAGCAAAAGAAAAGTAGAGAAAATTGAGCAGAATGGACTT
GCTTTGATTGAGAACAAGAAAAGACGCTCTAGCATTGTCTAGCAGCACTGCGAGAGCTCGGCCAAACCTGG
GCAAATTTAGATCACATGGTTGGACAATTAAGATACTGCTGAAATCAGTGTCTTGACCAATGGAGTAGTCACAAA
GTGGCCTTTGACAAGATAAACAGTTACCTCATGGAGGCCAGATACTCTCTTTCCCGATTCCGTCTGCTGACTGGC
TCCTTAGAAGCTGTGCAAGTTCAGGTGGACAATCTTCAGAAATCTCCAAGATGATCTGGAACCAAGGAAAGGAGC
TTACAGAAATTTGGCTCTATCACCAACCAATTATTAAGAGAGTGTCAACCCACCCGTGACAGAACTCTTACCAAT
ACACTGAAAGAAGTCAACATGAGATGGAATAACTTGTCTGGAAGAGATTGTCTGAGCAGCTACAGTCCAGCAAGGCC
CTACTTCAGCTTTGGCAAAGATACAAGGACTACTCCAACAGTGTGCTTCGACAGTTCAGCAGCAGGAGGATCGA
ACCAATGAGCTGTTGAAGGCAGCCACAAACAAGGACATTGCCGATGATGAGGTTGCCACATGGATTCAAGATTGC
AACGACCTCCTCAAAGGACTGGGCACAGTTAAAGATTCCCTCTTTTTCTCCATGAGCTGGGAGAGCAACTGAAG
CAACAAGTGGATTTCCGAGCATCAGCTATTCAATCGGATCAACTCTCTTTGAGTCAACACTTGTGTGCCCTG
GAGCAAGCTCTCTGCAACAGCAGACTTCAATACAGGCTGGAGTTCTTGATTATGAAACCTTTGCCAAGAGTTTA
GAAGCTTTGGAGGCTTGATAGTGAAGCTGAAGAATACTACAAGGGCAGGACCCTAGCCATCATCTGACCTC
TCCACAATCCAGGAAAGGATGGAAGAATTAAGGGACAGATGTTAAATTCAGCAGCATGGCTCCAGATTTAGAC
CGTCTAAATGAGCTTGATATAGGTTACCTTGAATGATAAGGAAATCAAAAGAAATGCAGAATCTGAACCGCCAT
TGGTCTCTGATCTCCTCTCAGACTACAGAAAGATTACGCAAGTTGCAGTCATTTTGTCTACAACATCAGACTTTC
TTGGAAAAATGTGAAACATGGATGGAATTCCTAGTTCAGACAGAACAAAAGTTAGCAGTAGAGATTTAGGAAAT
TATCAGCACCTTTTGGAACAGCAGAGAGCACAGAGTTGTTTCAAGCCGAGATGTTAGTCGTCAGCAGATTTTG
CACTCAATCATTATTGATGGGCAACGTCTTCTAGAACAAGGTCAAGTTGATGACAGGGATGAATTCACCTGAAA
TTGACACTCCTCAGTAATCAATGGCAGGGAGTGATTGCGAGGGCCAGCAGAGGCGGGGGATCATTGACAGCCAG
ATTGCGCCAGTGGCAGCGCTATAGGGAGATGGCAGAAAAGCTTCGTAAATGGTTGGTTGAAGTGTCTACCTCCCC
ATGAGTGGTCTCGGAAGTGTTCTATACCACTGCAACAAGCAAGGACCCTCTTTGATGAAGTGCAGTTCAAAGAA
AAAGTGTCTTCTGCGGCAACAAGGCAGCTACATCTGACTGTGGAGGCTGGCAAGCAACTCCTTCTCTCGGCGGAC
AGTGGCGCTGAGGCGCCTTGAGGCGCAACTCGCTGAAATCCAAGAGAAATGGAAATCAGCCAGCATGCGGCTG
GAAGAACAGAAAGAAAAACTAGCCTTCTTGTGAAAGACTGGGAAAAATGTGAGAAAGGAATAGCAGATTCCCTG
GAGAAACTACGAACCTTTCAAAAAGAAGCTTTCGCAGTCTCTCCCGGATCACCATGAAGAGCTCCATGCAGAACAA
ATGCGTTGCAAGGAATTAGAAAATGCAGTTGGGAGCTGGACAGATGACTTGACCCAGTTGAGCCTGTGTAAGGAC
ACCTCTCTGCCTATATCAGTGTGATGATATCTCAATTCTTAATGAACGCGTAGAGCTTCTGCAAGGCAGTGG
GAAGAATATGCCACCAGCTCTCCTTAAGGCGGCAGCAATAGGTGAAAGATTGAATGAATGGGCAGTCTTCAGT
GAAAAGAACAAGGAATCTGTGAGTGGTTGACTCAAATGAAAGCAAAGTTTCTCAGAATGGAGACATTCTCATT
GAAGAAATGATAGAGAAGCTCAAGAAGGATTATCAAGAGGAAATTGCTATTGCTCAAGAGAACAAAATACAGCTC

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FIGURE 2123C

CAACAAATGGGAGAACGACTTGCTAAAGCCAGCCATGAAAGCAAAGCATCTGAGATTGAATACAAGCTGGGAAAG
GTCAACGACCGGTGGCAGCATCTCCTGGACCTCATTGCAGCCAGGGTGAAGAAGCTGAAGGAGACCCTGGTAGCC
GTGCAGCAGCTTGATAAGAACATGAGCAGCCTGAGGACCTGGCTCGCTCACATCGAGTCAGAGCTGGCCAAGCCA
ATAGTCTACGATTCTGTAACTCGGAAGAAATACAGAGAAAGCTTAATGAGCAGCAGGAGCTTCAGAGAGACATA
GAGAAGCACAGTACAGGTGTTGCATCTGTCTCAACCTGTGTGAAGTCTGTGCACGACTGTGACGCTGTGCC
ACTGATGCCGAGTGTGACTCTATACAGCAGGCTACGAGAAACCTGGACCGGCGGTGGAGAAACATTTGTGCTATG
TCCATGGAAAGGAGGCTGAAAATCGAAGAGACGTGGCGATTGTGGCAGAAATTTCTGGATGACTATTACGTTTT
GAAGATTGGCTGAAGTCTTCAGAAAGGACAGCTGCTTTTCCAGCTCTTCTGGGGTGATCTATACAGTTGCCAAG
GAAGAACTAAAGAAATTTGAGGCTTTCCAGCGACAGGTCCACGAGTGCCTGACGCAGCTGGAAGTATCAACAAG
CAGTACCGCCGCTGGCCAGGGAGAACCAGCTGATTACAGCATGTAGCCTCAACAGATGGTTACGAAGGCAAC
CAGAGATGGGACAACCTGCAAAAGCGTGTACCTCCATCTTGCGCAGACTCAAGCATTTTATTGGCCAGCGTGAG
GAGTTTGAGACTGCGCGGGACAGCATTCTGGTCTGGCTCACAGAGATGGATCTGCAGCTCACTAATATTGAACAT
TTTTCTGAGTGTGATGTTCAAGCTAAAATAAAGCAACTCAAGGCTTCCAGCAGGAAATTTCACTGAACCACAAT
AAGATTGAGCAGATAATTGCCCAAGGAGAACAGCTGATAGAAAAGAGTGAGCCCTTGGATGCAGCGATCATCGAG
GAGGAAGTAGATGAGCTCCGACGGTACTGCCAGGAGGTCTTCGGGCGTGTGGAAAGATACCATAAGAAAAGTATC
CGCTGCTCTCTCCAGACGATGAGCAGCAGCTCTCAGACAGGGAGCTGGAGCTGGAAGACTCTGCAGCTCTGTCTG
GACCTGCACTGGCAGCAGCGCTCTGCAGACAGCCTGCTTCTCCACAGCCTTCTCTCAATCTCTCCCTCTCGCTC
GCTCAGCCCCCTCCGAGCGAGCGGTGAGGACGAGACACCCCGGCTAGTGTGGACTCCATCCCCCTGGAGTGGGAT
CACGACTATGACCTCAGTCGGGACCTGGAGTCTGCAATGTCCAGAGCTCTGCCCTCTGAGGATGAAGAAGGTGAG
GATGACAAAGATTTCTACCTCCGGGAGCTGTGGCTTATCAGGGGACCACAGTGCCCTAGAGTCACAGATCCGA
CAACTGGGCAAAGCCCTGGATGATAGCCGTTTTCAGATACAGCAAACCGAAAATATCATTGCGAGCAAAAGTCCC
ACGGGGCCGAGCTAGACACCAGCTACAAAGGCTACATGAACTGCTGGGCGAATGCAGTAGCAGTATAGACTCC
GTGAAGAGACTGGAGCACAACTGAAGGAGGAAGAGGAGAGCCTTCTGGCTTTGTTAACTGTCATAGTACCGAA
ACCCAAACGGCTGGTGTGATTGACCGATGGGAGCTTCTCCAGGCCAGGCATTGAGCAAGGAGTTGAGGATGAAG
CAGAACCTCCAGAAGTGGCAGCAGTTTAACTCAGACTTGAACAGCATCTGGGCTGGCTGGGGGACACGGAGGAG
GAGTTGGAACAGCTCCAGCGTCTGGAATCAGCACTGACATCCAGACCATCGAGCTCCAGATCAAAAAGCTCAAG
GAGTCCAGAAAGCTGTGGACACCGCAAGCCATCATCTCTCCATCAATCTCTGCAGCCCTGAGTTACCCAG
GCTGACAGCAAGGAGAGCCGGGACCTGCAGGATCGTTGTGCGAGATGAATGGGCGCTGGGACCGAGTGTGCTCT
CTGCTGAGGAGTGGCGGGGCTGCTGCAGGATGCCCTGATGCAGTGCCAGGGTTCCATGAAATGAGCCATGGT
TTGCTTCTTATGCTGGAGAACATTGACAGAAGGAAAAATGAAATGTCCCTATTGATTCTAACCTTGATGCAGAG
ATACITCAGGACCATCACAAACAGCTTATGCAAAATAAGCATGAGCTGTTGGAATCCCAACTCAGAGTAGCCTCT
TTGCAAGACATGTCTTGCCAACCTACTGGTGAATGCTGAAGGAACAGACTGTTTAGAAGCCAAAGAAAAAGTCCAT
GTTATTGGAATCGGCTCAAACCTCTCTTGAAGGAGGTGAGTGCATATCAAGGAAGTGGAGAAGTTATTAGAC
GTGTCAAGTAGTCAGCAGGATTTGTCTTCTGCTCTTCTGCTGATGAAGTGGACACCTCAGGGTCTGTGAGTCCC
ACATCAGGAAGGAGACCCCAACAGACAGAAAAGCCACGAGGCAAGTGTAGTCTCTCACAGCCTGGACCCCTCT
GTCAGCAGTCCACATAGCAGGTCCACAAAAGGTGGCTCCGATTCTCCCTTTCTGAGCCAGGGCCAGGTCCGTCC
GGCCGCGGCTTCTGTTGAGAGTCTCCGAGCAGCTCTTCCCTTCAGCTTCTCTGCTCTCTCTCATCGGGCTT
GCCTGCCTTGTACCAATGTCAGAGGAAGACTACAGCTGTGCCCTCTCCAACAACCTTGGCCGGTCAATCCACCCC
ATGCTCAGATACAGGAATGGCCCTCCTCCACTCTGAACCTAAGCAGATGCCATCTGCAGAAGTGTGGTAGCATAA
GGAGGATCGGGTCATAAGCAATCCCAAACTACCAACAAGAGGACCTTGATCTTGGCGAAAGCCCTCGGTGTGGCA
GCTTTAGCCCTCCTCCAGATCACATGTGTGCAAAATTATGGCTTCAGAGGTGGAAGATAAACAGTGACGGGGGAAC
AAACAGACAACAAGAAGGTTTGAAGAAATCTGGTTTGAGACTCTGAACCTTAGCATAAGGAGATTGAGTAAGG
ACCTCCAAAGTTCCCGGACTCATGAATTCTGGGCCCTTGGCCATTCTGTGCACAGCCAAGGACTTCAGTAGAC
CATCTGGGCAGCTTTCCATGGTGTGTCCAACCATCAGATAAATGACCCTCCCAAGCACCATGTGAGTGTGCT
ACAACTACCAACCAACAGTGTGTAAGAGATTTTAGAACCTTGTAACATACAATTTTTAAGAGCTTATATGGCA
GCTTCTTTTTTACCTTGTTTTCTTTGGGCGATGATGTTTTAACCTTTGCTTTAGAAGCACAGCTGTAAATCTA
AAAGGCACCTTTTTTTAGAGGTATAAAGAAAACTAGATGTAATAAATAAGATCATGGAAGGCTTTATGTGAAAA
AAGTTGAATGTTATAGT

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FIGURE 2124A

GCAGAGTCTGAGTCCCACTCCGCACCCCACCCTCTGTCTGGTACAGCTTACCAAACCAAAGTGCCCAAAGCCGTG
ACATCCCGGCCGCGGCTCGCAGGCCCCCGCCCTCCGCACGTCACGGCCGCGGGTGAGTGCCCCCTAGGGGCC
CCTGGGACGAGGAGGAAGCGCCAGGTCTTCCCGCCGCGCGCCGCGCGCCCTGCTCCCCCTGGCACGCGC
CCCGCCGCCCTCGGCAGCCGACGTCCGTGTCCCTGAGAACCAGCCGTCCCGCGCCATGGGCACGCGTCTGCCG
CTCGTCTGCGCCAGTCCGCGCGCCGCCAGCCCCGGGCCCTCCGCGCGCCCTCCGTGTGCCCTGTGCGGCT
AGCAGCGGCGGCGGCGGAGGCGGCGGCTGGCCGGGAGGGCCTGCTTGGACAGCGGCGGCGCAGGATGSCCAG
GCCCCGAGCAGCTGCAGCCCCGCGGCCGAACGCCGCGGCGCGGACTCCATCGTCAGAGAAGTCATTGAGAA
TCAAAAGAAGTTCTAAGTTTATTGCAAGAAAAAACCTGCCTTCAAGCCGGTTCTTGCAATTATCCAGGCAGGT
GACGACAACCTTGATGCAGGAAATCAACCAGAAATTTGGCTGAGGAGGCTGGTCTGAACATCACTCACATTTGCCTC
CCTCCAGATAGCAGTGAAGCCGAGATTATAGATGAAATCTTAAAGATCAATGAAGATACCAGAGTACATGGCCTT
GCCCTTCAGATCTCTGAGAACTTGTTTAGCAACAAAGTCCTCAATGCCTTGAAACCAGAAAAAGATGTGGATGGA
GTAACAGACATAAACCTGGGGAAGCTGGTGCGAGGGGATGCCCATGAATGTTTGTTCACCTGTTGCCAAAGCT
GTAATTGAACCTTCTGAAAAATCAGTAGGTGTCAACCTAGATGGAAAGAAGATTTTGGTAGTGGGGGCCATGGG
TCTTTGGAAGCTGCTCTACAATGCCTGTTCCAGAGAAAAGGGTCCATGACAATGAGCATCCAGTGGAACACGC
CAGCTTCAAAGCAAGCTTCACGAGGCTGACATTGTGGTCTTAGGCTCACCTAAGCCAGAAGAGATTCCCCTTACT
TGGATACAACCAGGAACACTGTTCTCACTGCTCCCATGACTTCCTGTGAGGAAGGTTGGGTGTGGCTCTCCA
AGAATACATTTTGGTGGACTCATTGAGGAAGATGATGTGATTCTCCTTGCTGCAGCTCTGCGAATTCAGAACATG
GTCAGTAGTGGAAGGAGATGGCTTCGTGAACAGCAGCACAGGCGGTGGAGACTTCATGCTTGAACTTCAGCCT
CTCTCCCCTGTGCCAAGTGACATTGAGATTTCAAGAGGACAACTCCAAAAGCTGTGGATGTCTTGCCAAGGAG
ATTGGATTGCTTGACAGATGAAATTGAAATCTATGGCAAAAGCAAAGCCAAAGTACGTTTGTCCGTGCTAGAAAG
TTAAAGGATCAAGCAGATGGAAAATACGTCTTAGTTGCTGGGATCACACCCACCCCTCTTGAGAGAAGGGAAGAGC
ACAGTCACCATCGGGCTTGTGCAGGCTCTGACCGCACACCTGAATGTCAACTCCTTTGCCTGCTTGAGGCAGCCT
TCCCAAGGACCGACGTTTGGAGTGAAAGGAGGAGCCGCGGGTGGTGATATGCCAGGTCATCCCCATGGAGGAG
TTCAACCTTCACTTGACTGGAGACATCCACGCCATCACCGCTGCCAATAACTTGCTGGCTGCCCATCGACACG
AGGATTCTTCATGAAAACACGCAACAGATAAGGCTCTGTATAATCGGCTGGTTCCCTTAGTGAAATGGTGTGAGA
GAATTTTCAGAAATTCAGCTTGCTCGGCTAAAAAACTGGGAATAATAAGACTGATCCGAGCAGTATTGGATACAAAT
GAGGAAGTGAGTAAATTTGCCGTCTCGACATCGACCCATCTACCATCACGTGGCAGAGAGTATTGGATACAAAT
GACCGATTCTACGAAAAATAACCATCGGGCAGGGAAACACAGAGAAGGGCCATTACCGGCAGGCGCAGTTTGAC
ATCGCAGTGGCCAGCGAGATCATGGCGGTGCTGGCCCTGACGGACAGCCTCGCAGACATGAAGGCACGCTGGGA
AGGATGGTGGTGGCCAGTGACAAAAGCGGGCAGCCTGTGACAGCAGATGATTTGGGGGTGACAGGTGCTTTGACA
GTTTTGATGAAAGATGCAATAAAACCAAACCTGATGCAGACCTGGAAGGGACACCTGTGTTCTGTGATGCGGGC
CCTTTTGCTAACATTGCTCACGGCAACTCTTCAGTGTGGCTGATAAAATTGCCCTGAAACTGGTTGGTGAAGAA
GGATTGTAGTGACCGAAGCTGGCTTTGGTGTGACATCGGAATGGAGAAATCTTCAACATCAAGTCCCGAGCT
TCCGGCTTGGTGCCCAACGTGGTTGTGTAGTGGCAACGGTGCAGCTCTGAAGATGCATGGAGGCGGGCCAAGT
GTAACGGCTGGTGTCTCTTAAGAAAGAATATACAGAGGAGAACATCCAGCTGGTGGCAGACGGCTGCTGTAAC
CTCCAGAAGCAAATTCAGATCACTCAGCTCTTTGGGGTTCCCGTTGTGGTGGCTCTGAATGTCTTCAAGACCGAC
ACCCGCGCTGAGATTGACTTGGTGTGTGAGCTTGCAAAGCGGGCTGGTGCCCTTGATGCAGTCCCCTGCTATCAC
TGGTCCGTTGGTGGAAAGGATCGGTGGACTTGGCTCGGGCTGTGAGAGAGGCTGCGAGTAAAGAAGCCGATTC
CAGTTCCTGTATGATGTTTCAAGTTCCAATTGTGGACAAGATAAGGACCATTGCTCAGGCTGTCTATGGAGCCAAA
GATATTGAACTCTCTCCTGAGGCACAAGCCAAAATAGATCGTTTACACTCAACAGGGTTTTGGAAATTTGCCCATC
TGCATGGCAAAGACCCACCTTTCTCTATCTCACCACCTGACAAAAAAGGTGTGCCAAGGGACTTCATCTTACCT
ATCAGTGACGTCGGGGCCAGCATAGGCGCTGGGTTCATTTACCCTTTGGTGGGAACGATGAGCACCATGCCAGGA
CTGCCCACCCGGCCCTGCTTTTATGACATAGATCTTGATACCGAAACAGAAAGTTAAAGGCTTGTCTTAAGTG
GACAAGGCTCTCACAGGACCCGATGCAGACTCCTGAAACAGACTACTCTTTGCCTTTTGTGCTGAGTTGGAGAAG
AAACTGAATTTGAAAAATGTCTGTTATGCAATGCTGGAGACATGGTGAATAGGCCAAAGATTTCTTCTCGTTC
AAGATGAATTTCTGTTCACAGTGGAGTATGGTGTTCGGCAAAAGGACCTCCACCAAGACTGAAAGAACTAATTTA
TTTCTGTTTCTGTGGAGTTTCCATTATTTCTACTGCTTACACTTTAGAAATGTTTATTTTATGGGGACTAAGGGAT
TAGGAGTGTGAACATAAAGGTAACATTTTCCACTCTCAAGTTTTCTACTTTGTCTTTGAACTGAAAATAAACATG

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FIGURE 2124B

GATCTAGAAAACC

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FIGURE 2125

MVSSGRRWLREQHRRWRLHCLKLQPLSPVPSDIEISRGQTPKAVDVLAKEIGLLADEIEIYGKSKAKVRLSVLE
RLKDQADGKYVLVAGITPTPLGEGKSTVTIGLVQALTAHLNVNSFACLRQPSQGPTFGVKGGAAGGGYAQVIPME
EFNLHLTGDIHAITAANNLLAAAIDTRILHENTQTDKALYNRLVPLVNGVREFSEIQLARLKIIRNWE

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FIGURE 2126

ACTCTTGGGAAAACCTGCTGGGCACCGTCGTCGCGCTGAAGGTGGTTCTGTACCTGCTCCGAGTGTGCTTAGCGAT
GGCCTGGAAATCCGGCGGCGCCAGCCACTCGGAGCTAATCCACAATCTCCGCAAAAATGGAATCATCAAGACAGA
TAAAGTATTTGAAGTGATGCTGGCTACAGACCGCTCCCACTATGCAAAATGTAACCCATACATGGATTCTCCACA
ATCAATAGGTTTTCCAAGCAACAATCAGTGCTCCACACATGCATGCATATGCGCTAGAACTTCTATTTGATCAGTT
GCATGAAGGAGCTAAAGCTCTTGATGTAGGATCTGGAAGTGAATCCTTACTGCATGTTTTGCACGTATGGTTGG
ATGTACTGGAAAAGTCATAGGAATTGATCACATTAAAGAGCTAGTAGATGACTCAGTAAATAATGTCAGGAAGGA
CGATCCAACACTTCTGTCTTCAGGGAGAGTACAGCTTGTGTGGGGGATGGAAGAATGGGATATGCTGAAGAAGC
CCCTTATGATGCCATTTCATGTGGGAGCTGCAGCCCCTGTTGTACCCAGGCGCTAATAGATCAGTTAAAGCCCGG
AGGAAGATTGATATTGCCTGTTGGTCCTGCAGGCGGAAACCAAATGTTGGAGCAGTATGACAAGCTACAAGATGG
CAGCATCAAAATGAAGCCTCTGATGGGGTGATATACGTGCCTTTAACAGATAAAGAAAAGCAGTGGTCCAGGTG
GAAGTGAATTTTATCTTCTGCTCTTTCTTCTTCCACACATGCAAGGGATGAATTGTAAAAGCAACATCAGCTTGAC
CAGTATAAAATTACAGTGGATTGCTCATCTCAGTCCTCAAAGCTTTTTGAAAACCAACACCATCACAGCTTGTTT
TGGACTTTGTGTACACTGTTATTTTCAGCATGAAAATGTGTGTTTTTTAGGGTTTCTGATTCTTCAAAGAGGCAC
AGAGCCAAATTGGTAGAGGAAGGATGCAAAGTATAAATTTGTGTAATATTACTTTAACATGCCCATATTTTACTT
GGAAATATTAAAAGAAAGGGTTCTGTAAAATGGAAAACCTTAGTTTGTGAATTGATTTTGAGGAGTGGTTTTTCTT
TTCTTGACACTTAATTCTGTTCTGATATTAATTTATCAGATTGCTTTTGTGCATTGGATAACACCACCATTAC
AAGTTAAGATTCTTGGTATTTGGATATCTGTTAGATGCTACTAAGAAAATAGAGATGAGCTTTCTTTTAAAGCT
TTTGATGTGGTGTCATAGAATAGCATGTTGTAGATACAATCAGCTGCTTTGTTACCTTAAACCTAGGCATTGTGA
AATATTAAACCTTAAGATGGCAGGTGATGTCCTGTAAACACTCAGCTGTTTTCAGATTGGACATAACTGACTTAGTT
CTTCCCTTCTCTCTCTCAAAATTATAGGAGACTTGTAGTTTAGTGTGGTTTTCTGTTTCTAATTGCTGCTGA
TAATGTATATGAACCTTAACATGCTGTGTAAGCTGTGTCCTAGTTCTTGAACAGTTTATGCAGTGCTGCTTTGCCA
AATAAAGTTAAAAGTAAAAGAGGC

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FIGURE 2127

MAWKSGGASHSELIHNLRKNGIIKTDKVFVMLATDRSHYAKCNPYMDSPQSIGFQATISAPMHAYALELLFDQ
LHEGAKALDVGSGSGILTACFARMVGCTGKVIDHIKELVDDSVNNVRKDDPTLLSSGRVQLVVGDRMGYAE
APYDAIHVGAAAPVVPQALIDQLKPGGRLILPVGPAAGNQMLEQYDKLQDGSIKMKPLMGVIYVPLTDKEKQWSR
WK

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FIGURE 2128A

ACTCTGGCAAGTTGCGGGCGCGGGGAGCTGTGCGGGCAGCGGCCCTCGGGAGGACGTGGCCCCGGCCCCG
CCCCAGTGGGCCCCGACCCCTCATGGCCCTGAGCAAAGGGCTGCGGGCTGCTGGGGCGCCTGGGGGCCGAGGGGGAC
TGTAGCGTGCTGCTGGAGGCGCGCGGCCGCGAGCTGCCTGCTGTTGAGGCCGCGCACGGTGGCCACGCTGGCT
CCAGAAAGAAAAGGAAGTCATTAAAGGACAGTATGGCAAGCTCACGGACGCGTACGGCTGCCTGGGGGAGCTGAGG
CTGAAATCTGGTGGCACGTCTCTGAGCTTCCTGGTGTGGTGACAGGCTGCACATCTGTGGGCAGAATTCCAGAT
GCTGAAATCTACAAAATCACTGCCACTGACTTTTACCCTCTTCAGGAAGAGGCCAAGGAGGAGGAACGCCTCATA
GCTTTGAAGAAAATCCTCAGCTCGGGGGTGTCTATTCTCATGGCCAAACGATGGGTCTCGCTTTGACCTGACT
GTCCGCACGCAGAAGCAGGGGGATGACAGCTCTGAATGGGGGAACCTCTTCTTCTGGAACCAGCTGTTGCACGTG
CCCTTGAGGCAGCACCAGGTGAGCTGCTGTGACTGGCTGCTGAAGATCATCTGCGGGGTGGTCACCATCCGCACC
GTGTATGCCTCCCAAGCAGGCCAAGGCCCTGCCTCGTCTCTCGCGTTAGCTGTGAGCGCACAGGCACTCGCTTC
CACACCCGTGGCGTGAACGACGACGGCCATGTGTCCAACCTCGTGAGACAGAGCAGATGATTACATGGACGAT
GGAGTGTATCTTTTGTCCAGATCAGAGGCTCCGTTCCGCTGTTCTGGGAACAGCCAGGGCTTCAGGTTGGCTCC
CATCATCTGAGACTCCACAGAGGCTTGAAGCCAATGCCCTGCTTTCGACAGGCACATGGTGCTTCTGAAGGAG
CAGTACGGGCAGCAGGTGGTGTGAACCTTCTGGGAAGCAGAGGCGGAGAGGAGGTGCTCAACAGAGCCTTCAAG
AAGCTGCTCTGGGCTTCTTGCCACGCGGGCGACAGCCTATGATCAATTTTGACTTCCATCAGTTTGCCAAAGGT
GGGAAGCTAGAGAAATTGGAGACCCTCTTGAGGCCACAGTTAAAGCTGCACTGGGAAGACTTCGATGTGTTTACA
AAGGGGGAGAAGCTCAGTCCACGTTTTCAGAAAGGCACCTTTCGGGATGAACGTGCTTGAAGTGCCTGGACCGAAC
AACACTGTGCAGAGCTTCATCGCGCTCGAGGTCTGCATCTGCAGCTCAAGACCCTGGGGCTGAGTTCAAAACCC
ATCGTTGACCGCTTTGTGGAGTCTTCAAAGCCATGTGGTCTCTGAATGGCCACAGCCTGAGCAAGGTGTTTACA
GGCAGCAGAGCCCTGGAAGGGAAGGCCAAGGTGGGGAAGCTGAAGGATGGAGCCCGGTCCATGTCTCGAACCATC
CAGTCCAACCTTCTTCGACGGGGTGAAGCAGGAGGCCATCAAGCTGCTGCTGGTTGGGGACGTCTACGGCGAGGAG
GTGGCAGACAAAGGGGGCATGCTGCTGGACAGCAGCGCGCTCTCGGTGACTCCCAGGATCTGAAAGCTATGACT
GAGCGTCAGTCCGAATTCACAAATTTCAAGCGGATCCGATTGCTATGGGGACCTGGAACGTGAACGGAGGAAAG
CAGTTCCGGAGCAACGTGCTCAGGACGGCGGAGCTGACAGACTGGCTGCTCGACTCGCCCCAGCTCTCGGGAGCT
ACCGACTCCCAGGATGACAGCAGCCAGCTGACATATTTGCTGTGGGGTTTGAAGAGATGGTGGAAATTGAGCGCA
GGGAATATTGTCAATGCCAGTACTACCAACAAGAAGATGTGGGGTGAACAGCTTCAGAAAGCCATCTCACGCTCT
CATAGATACATTCTGTTGACTTCGGCACAGCTGGTGGGCGTCTGTCTTTATATCTTTGTACGTCCATACCATGTC
CCGTTTCATCAGGGACGTAGCCATCGACACAGTGAAGACGGGCATGGGGGGCAAGCGGGGAACAAGGGCGCCGTC
GGCATCCGCTTCCAGTTCACAGCACCAGCTTCTGCTTCATATGTAGTCACCTGACGGCCGGGCAGTCCCAGGTG
AAGGAGCGGAATGAAGACTACAAGGAGATCAACCCAGAACTCTGCTTCCCAATGGGGAGAAATGTTTTTCTCAT
GATTATGTATTTTGGTGTGGCGATTTCAACTACCGCATTGATCTTACTTATGAAGAAGTCTTCTATTTTGTAA
CGCCAAAGACTGGAAGAACTTCTGGAATTTGATCAACTACAGCTACAGAAATCAAGTGGAAAAATTTTAAGGAC
TTTCACGAAGGAGCCATTAACTTTGGACCCACCTACAAGTATGACGTTGGCTCAGCCGCCTACGATACAAGCGAC
AAATGCCGCACCCCCGCTGGACAGACAGGGTGTGTGGTGGAGGAAGAAACATCCCTTTGATAAAACAGCTGGA
GAACCTAACCTTCTAGACAGTGATCTAGATGTTGACACCAAGTCAGACACACCTGGTCTCCTGGTGCCCTGCAG
TATTATGGTCTGTGGAGCTACAAGCGTCTGATCACAGACTGTGCTGGCGATCGTGGAGGTGGAAGTTCAGGAA
GTCGATGTGGGTGCTCGGGAGAGGGTTTTCCAGGAAGTGTCTCTCCTTCCAGGGCCCCCTGGATGCCACTGTTGTA
GTAAACCTTCAATCACCGACCTTAGAAGAGAAAAACGAGTTTCCAGAGGACCTGCGTACTGAGCTCATGCAGACC
TTGGGGAGTTATGGGACAAATTGTTCTTGTGAGGATCAACCAAGGGCAGATGCTGGTAACTTTTGCAGACAGTCAC
TCGGCTCTCAGTGTCTTGACGTGGACGGTATGAAGGTGAAGGCAGAGCAGTGAAGATTAGACCGAAGACCAAG
GACTGGCTGAAGGTTTGGAGAGGAGATCATTGCGAAACGAGACAGCATGGCCCCGTGTCTCCCACTGCCAAC
TCTCTTTGCTGGAGGAAACTTTGACTTCACAAGTTTGGACTATGAGTCAGAAGGGGATATTCTTGAAGACGAT
GAAGACTACTTGGTGGATGAATTCAATCAGCCTGGAGTCTCGGACAGTGAACCTCGGGGGAGACACCTCTCTGAT
GTCCCCGGCCCCACAGCACTGGCTCCTCCAGCAAGTCACCTGCTCTCACCAAAAAGAAGCAGCATCCAACGTAC
AAAGATGACGCGGACCTGGTGGAGCTCAAGCGGGAGCTGGAAGCCGTGCGGGAGTTCCGCCACCGTTCTCCGAGC
AGGTCTCTGTGCGTCCCAACCGGCCTCGGCCACCTCAACCCCCGAGAGACCCCCCTCCAACCGGTTTAATG
GTGAAAAAGTCGGCTTCAGATGCGTCCATCTCCTCCGGCACCCATGGACAGTATTCAATTTTGCAGACGGCAAGA
CTTCTACCAGGAGCACCTCAGCAACCTCCAAGGCTCGGACTGGAATAAGTAAACCTTATAATGTCAAGCAGATC

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FIGURE 2128B

AAAACCACCAATGCCAGGAGGCAGAAGCAGCAATCCGGTGTCTCCTGGAAGCCAGAGGAGGTGCCTCCGAAGAA
GCCCTAAGTGCCGTGGCCCCAAGGGACCTTGAAGCATCCTCTGAACCAGAGCCCACACCGGGGGCAGCCAAACCA
GAGACCCACAGGCGCCCCACTCCTTCCCGCTCGGCCCCACCCAGAGTTCCTGCCATCAAGAAGCCAACCTTG
AGAAGGACAGGAAAGCCCCCTGTCACCGGAAGAACAGTTTGAGCAACAGACTGTCCATTTTACAATCGGGCCCCCG
GAGACAAGCGTTGAGGCCCCCTCTGTGCTGACAGCCCCCTCGAGTCCCTCCTGTTCCCAAACCAAGAACATTTTACG
CCTGGGAAAGCTGCAGAGAGGCCAAGCCACAGGAAGCCAGCATCAGACGAAGCCCCCTCTGGGGCAGGAGCCTCT
GTGCCACCACCTCTGGAGGCGCCGCTCTTGTGCCCAAGGTACCCCCGAGGAGGAAGAAGTCAGCCCCCGCAGCC
TTCCACCTGCAGGTCTCTGCAGAGCAACAGCCAGCTTCTCCAGGGCCTCACTTACAATAGCAGTGACAGCCCCCTCT
GGGCACCCACCTGCCGCGGGCACCGTCTTCCCAAGGGGACTTTCTCAGCACTTCATCTGCTACAAGCCCCGAC
AGCGATGGCACCAAAGCGATGAAGCCAGAGGCAGCCCCACTTCTTGGTGATTATCAGGAACCCCTTCTGGAACCTT
CTTCACCACCCTAAACTGTTGAATAACACTTGGCTTTCTAAGAGCTCAGACCCCTTTGGACTCAGGAACCAGGAGC
CCCCAAAGAGATCCCATAGACCCAGTGTGAGCTGGCGCTTCAGCTGCCAAGGCAGAGCTGCCACCAGATCATGAA
CACAAAACCTTAGGTCACTGGGTGACAATCAGTGACCAAGAAAAGAGGACAGCACTGCAGGTGTTTGACCCACTG
GCAAAAACATGACTGAGCAGCTTGAAGGCTGCAGTCTATAGAATGCATACCTTCTCCCTCTAGACATCCCTC
CACCAGAAGAGACATCTATTTAAAGGCACACTGGCCAAAACGTTTGTGCATCTGTCACTCTCGTGTAGTTTACAA
AAATCGTGTCTCTTATTCAGTAAGATGGTTACTCAGCCACCAAAATATATTTCACTCAAGGCTTGTACATCTGAA
GTTTGTCTCTCAAGGAATGGGAACCTTCTGTAAATTCGGTGTATGGATTTTAAGAAAGGAATCTAGCCAATGA
GGTCCAAGAAGTTCTCACCATTGAATTTTAAATGGCTGTTCACTTGTGTACGTGATGGAGATTGTGCTT
TTGTTTTATTGCAATTTTACAGATTTGGTATAACATTTTGGGGAGCCACCTGAAGGTTGATGTATAAAGTAAGGA
TTAGAGAAAGAGGTCTGTTGTGACCATTAGTAGCTGTCTGGCCCACTTAAACAAGGTTACAAAAATCAGAGTCG
GAAGCAGCCAAATAGGTCAACCTAATGACTAGACTGTACATTTCCCATGAGCCTTCATGTTAAGTGTGTACATGT
GCGTTAACCTTGATGATGCGTGAATCCCGAGGGAGCCGGTGGCATAACCCGTTAGCTTAACCTTAGCTTAACTA
GCTGAAGGCTCCTGTGCCATGTCTTAGACATTGCATGCCCTATCAATTACTATAATCCTGAGCCATGGTGTGCTA
CTGAAACCAATTTTATCCACCATCTAGTCCTTATTAATGAAACCTCACGGATCCTTGTTCGGCTTATATTCC
ATGCATACCACATAAAAGCACACAGTGCGAAAACCTTGTGTATACGCGATATTGATTCTCATTGTTAGAATATG
GAGAGTGTTCAGCCTCGTCTGTCCGGCTGGAGCTTCGGGATGGAAAGTGCTATGTGTCCCTGCATATAAGAATC
ACCAGGCGAGTGTCTTGGGTTGCTTGTCTATATGTTTGTCTATATTTTTTGCCTATACATTTTTCCACGTTT
CCAACAGCACTTCTCACCTATTCAATAACTGAAAAGACATTACCATAGTGCTTTACATTTTTAAAGTAATGTTA
CAAGGTCTGGAATTCATTTGGAGCAGATACCGTGTTTTCGCTATTTAATAAGAAGTTCAGTAGTGAATCTTACT
GTACCGCTGTGTATCTGGGAGCCTCGTACAGAGGCTCGCAGCAGTGATCAAGTGTATCCCTTACGTGACT
GGGGGATCTGTCTTAAAGCTGACTGCTAGGATAGTAAGGATCATCTTGGCTGGGCTATGCCACTGTCTTGTT
ACCAATTAGACATCTGGAATTTTCAATATTAGATTTTTCATTGTCACTGTCAAGATATATTGCAGATTACTTAAATAT
GGCCATCAAAAACAAAGTTACAACACGTATCTTTTCACTGAAAACATAATACCTGGAAAAGGATAAAAAAAA
AAGGAATCCGTGACCCACAGAGCTAGACAGATAAGATGCATAGTTGACCAGTCATAAAAGGCGGTGTTAGGTGA
TCAGGATGCCGTTGGTGGCATTTACGTGCTTTATATGATTTTTACCTCTGTAACAAACACAAGAAATAAACAGAA
TGGTCCTTAACAGAGTTTGGGGGAGAGAGCAAGATGGGTTCCCTGGAGAAGCTGATTTGCCAAGATGCACATCGC
TATTAACAGCCAGAGTCATAAATGAAATGAAATGAAATGAAATGAAATGAAATGAAATGAAATGAAATGAAATGAAAT
CTCACCAAAAAGGAGATAAATTTGAAAACAGATAAATGTAACAACAGTCAAAGAAGCAGGGGAAAAGTAAGCTC
CTCCAAAGTTGCTTGCAGTGCTGGAAATAGATCTCATTTTTAGGTTTTCTCTTCTGTTCCAGATACCAAAATAAATG
GGACAGAGAATAAATTTTTGTTAAATATGTGCTCATCTCTAAGTAGCTCTTCAGAGTCTGACCGTAAGTAAA
AACACACAGAATTGTGTTGACTGGGGGAGGTGAATCACAAAAAGTTACGAGGAGTTAAGAGTTAAATATTATT
TGATCGTGGCTGTCAAATTTAGTGAACAACATAGATTGGATTTGGAGTTGGTAGTGGTATGGTTCTCATACCAG
AATTCTCTTAAAAAAGGACAATTGGAATTGCCTTATTTATTTTTTAAATCAATGCTTACTAGTTGGT
AGGATTTCCAGGTGAGCAGCAGGGTTGATTAAATAATCTTGACAAATGAGCAGCTGCCATCTTGGGGGATTTTATT
CTGTGTTTTTTTTAAATGTTTCTGTTTGTATGCTACCATCCAGGGCTTCTTATTGTGACCTTGTAGCCTATTTTGT
TCCTGCTGTICTCTAACATGGTGCAGTTACGCGAGACTGGTTAGGTACTTCACAACTCACCATTGTCTCTCTGA
CCCCAAGCCTAGTCCCTTTTACATCACCATCTTCTCAGACTTCTTGCCTATTCTTAAATATGTTTTGGTTAATG
ATTGAATTAGGACATCAGCTTAAGCAATTCCTGTAACGGTTTAAACGTTGTTGAAGTTCAAGGCACATAATAAAT

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FIGURE 2128C

TCTCCCTGATGTGTGTGTAAGTATAAAACAAAGTAATGTATCAAAGCGTTCACTTTATAATGAAGTCATTTCATTG
GGAAGGAAAGCTGCAAAGATTATTGGGGGACTAGTGATTAATAAAATCCTGTAATATTTTGAAGTGAAAATTG
TACTGAAATTGTACATGATACCTATTAAATGTTTTGTCTTTTTT

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FIGURE 2129

MALSKGLRLLGRLGAEGDCSVLLEARGRDDCLLFEAGTVATLAPEEKEVIKGQYGLTDAYGCLGELRLKSGGTS
LSFLVLVTGCTSVGRIPDAEIIYKITATDFYPLQEEAKEEERLIALKKILSSGVFYFSWPNDGSRFDLTVRTQKQG
DDSSEWGNSTFFWNQLLHVPLRQHQQVSCCDWLLKIIICGVVTIRTQYASHKQAKACLVSRVSCERTGTRFHTRGVND
DGHVSNFVETEQMIYMDDGVSSFVQIRGSVPLFWEQPGQLQVGSDDLRLHRLHGLEANAPAFDRHMLLKEQYQQQV
VNLGSRGGEEVLNRAFKKLLWASCHAGDTPMINFDFHQFAKGGKLEKLETLLRPQLKLHWEDFDVFTKGENVSP
RFQKGTLRMNCLDCLDRTNTVQSFIQALEVLHLQLKTLGLSSKPIVDRFVESFKAMWSLNGHSLSKVFTGSRLEG
KAKVGKLDGARSMSRTIQSNFFDGVKQEAIKLLLVGDVYGEVADKGGMLLDSTALLVTPRILKAMTERQSEFT
NFKRIRIAMGTWNVNGGKQFRSNVLRTAELTDWLLDSPQLSGATDSQDDSSPADIFAVGFEEEMVELSAGNIYNAS
TTNKKMWGEQLQKAISSSHRYILLTSAQLVGVCLYIFVRPYHVPFIRDVAIDTVKTGMGGKAGNKGAVGIRFQFH
STSFCEICSHLTAGSQVKERNEDYKEITQKLCFPMGRNVFSDYVFWCGDFNYRIDLTYYEEVFYFVKRQDWKKL
LEFDQLQLQKSSGKIFKDFHEGAINFGPTYKYDVGSAAQYDTSKCRTPAWTDRVLWWRKKHPFDKTAGELNLLDS
DLVDVTKVRHTWSPGALQYYGRAELQASDHRPVLAIIVEVEVQEVVDVGARERVFQEVSSFGPLDATVVVNLQSP
LEEKNEFPEDLRTELMQTLGSYGTIVLVRINQGQMLVTFADSHSALSVDVDGMKVKGRAVKIRPKTKDWLKGRL
EEIIRKRDSMAPVSPTRANSCLLEENFDFTSLDYESEGDILEDDYLVDEFNQPGVSDSELGGDDLSDVPGPTAL
APPSKSPALTKKKQHPTYKDDADLVELKRELEAVGEFRHRSPSRSLSVPNRPRPPQPPQPPPTGLMVKKASD
ASISSGTHGQYSILQATARLLPGAPQPPKARTGISKPYNVKQIKTTNAQEAEEAIRCLLEARGGASEEALSAPV
RDLEASSEPEPTPGAAPKPTQAPPLPRRPPPRVPAIKKPTLRRTGKPLSPPEEQFEQQTVHFTIGPPETSVEAP
PVVTAPRVPPVPKPRTFQPGKAAERPSHRKPASDEAPPAGASVPPPLEAPPLVPKVPVPRRKSAPAAFLQLVQ
SNSQLLQGLTYNSSDPSGHPPAAGTVFPQGDFTSTSSATSPDSGDKAMKPEAAPLLGDYQDPFWNLLHHPKLL
NNTWLSKSSDPLDSGTRSPKRDPIPVSAAGASAAKAELPPDEHKTGLHWVTISDQEKRTALQVFDPLAKT

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FIGURE 2130

AGGCAGGGCGGGCGGGCGCTCTAAGGGTTCTGCTCTGACTCCAGGTTGGGACAGCGTCTTCGCTGCTGCTGGATA
GTCGTGTTTTTCGGGGATCGAGGATACTCACCAGAAACCGAAAATGCCGAAACCAATCAATGTCCGAGTTACCACC
ATGGATGCAGAGCTGGAGTTTGCAATCCAGCCAAATACAACCTGGAAAACAGCTTTTTGATCAGGTGGTAAAGACT
ATCGGCCTCCGGGAAGTGTGGTACTTTGGCCTCCACTATGTGGATAATAAAGGATTTCTACCTGGCTGAAGCTG
GATAAGAAGGTGTCTGCCCAGGAGGTGAGGAAGGAGAATCCCTCCAGTTCAAGTTCCGGGCCAAGTTCTACCCT
GAAGATGTGGCTGAGGAGCTCATCCAGGACATCACCAGAACTTTTTCTTCTCCAAGTGAAGGAAGGAATCCTT
AGCGATGAGATCTACTGCCCCCTGAGACTGCCGTGCTCTTGGGGTCTACGCTGTGCAGGCCAAGTTTGGGGAC
TACAACAAAGAAGTGCAAGTCTGGGTACCTCAGCTCTGAGCGGCTGATCCCTCAAAGAGTGATGGACCAGCAC
AACTTACCAGGGACCACTGGGAGGACCGGATCCAGGTGTGGCATGCCGAACACCGTGGGATGCTCAAAGATAAT
GCTATGTTGGAATACCTGAAGATTGCTCAGGACCTGGAAATGTATGGAATCAACTATTTTCGAGATAAAAAACAAG
AAAGGAACAGACCTTTGGCTTGGAGTTGATGCCCTTGGACTGAATATTTATGAGAAAGATGATAAGTTAACCCCA
AAGATTGGCTTTCTTGGAGTGAAATCAGGAACATCTCTTCAATGACAAAAAGTTTGTCAATTAACCCATCGAC
AAGAAGGCACCTGACTTTGTGTTTTATGCCCCACGTCTGAGAATCAACAAGCGGATCCTGCAGCTCTGCATGGGC
AACCATGAGTTGTATATGCGCCGAGGAAGCCTGACACCATCGAGGTGCAGCAGATGAAGGCCAGGCCCGGGAG
GAGAAGCATCAGAAGCAGCTGGAGCGGCAACAGCTGGAAACAGAGAAGAAAAGGAGAGAAAACCGTGGAGAGAGAG
AAAGAGCAGATGATGCGCGAGAAGGAGGAGTTGATGCTGCGGCTGCAGGACTATGAGGAGAAGACAAAGAAGGCA
GAGAGAGAGCTCTCGGAGCAGATTAGAGGGCCCTGCAGCTGGAGGAGGAGAGGAAGCGGGCACAGGAGGAGGCC
GAGCGCCTAGAGGCTGACCGTATGGCTGCACTGCGGGCTAAGGAGGAGCTGGAGAGACAGGCGGTGGATCAGATA
AAGAGCCAGGAGCAGCTGGCTGCGGAGCTTGCAAGATACACTGCCAAGATTGCCCTCTTGAAGAGGCGCGGAGG
CGCAAGGAGGATGAAGTTGAAGAGTGGCAGCACAGGGCCAAAGAAGCCCAGGATGACCTGGTGAAGACCAAGGAG
GAGCTGCACCTGGTGATGACAGCACCCCCGCCCCACCACCCCCCGTGTACGAGCCGGTGAGTACCATGTCCAG
GAGAGCTTGCAGGATGAGGGCGCAGAGCCCACGGGCTACAGCGCGGAGCTGTCTAGTGAGGGCATCCGGGATGAC
CGCAATGAGGAGAAGCGCATCACTGAGGCAGAGAAGAACGAGCGTGTGCAGCGGCAGCTGCTGACGCTGAGCAGC
GAGCTGTCCCAGGCCGAGATGAGAATAAGAGGACCCACAATGACATCATCCACAACGAGAACATGAGGCAAGGC
CGGGACAAGTACAAGACGCTGCGGCAGATCCGGCAGGGCAACACCAAGCAGCGCATCGACGAGTTCGAGGCCCTG
TAACAGCCAGGCCAGGACCAAGGGCAGAGGGGTGCTCATAGCGGGCGTGCCAGCCCCGCCACGCTTGTGTCTTT
AGTGCTCCAAGTCTAGGAACTCCCTCAGATCCCAGTTCCTTTAGAAAGCAGTTACCCAACAGAAACATTCTGGGC
TGGGAACCAGGGAGGCGCCCTGGTTTGTTCCTCCAGTTGTAATAGTGCCAAGCAGGCCTGATTCTCGCGATTAT
TCTCGAATCACCTCCTGTGTGTGTGCTGGGAGCAGGACTGATTGAATTACGGAAAATGCCTGTAAAGTCTGAGTAA
GAACTTCATGCTGGCCTGTGTGATACAAGAGTCAGCATCATTAAAGGAAACGTGGCAGGACTTCCATCTGTGCC
ATACTTGTCTGTATTGAAATGAGCTCAAATTGATTTTTTAATTTCTATGAAGGATCCATCTTGTATATTTAC
ATGCTTAGAGGGGTGAAAATTATTTTGGAAATTGAGTCTGAAGCACTCTCGCACACACAGTGATTCCCTCCTCCC
GTCACCTCCACGCAGCTGGCAGAGAGCACAGTGATCACCAGCGTGAGTGGTGGAGGAGCACTTGGATTTTTTTT
TTGTTTTTTTTTTTTTTTGCTTAACAGTTTTAGAAATACATTGTACTTATACACCTTATTAATGATCAGCTATATA
CTATTTATATACAAGTGATAATACAGATTGTAACATTAGTTTTTAAAAAGGGAAAGTTTTGTTCTGTATATTTTG
TTACCTTTTACAGAATAAAGAATTACATATGAAAAACCTCTAAACCATGGCACTTGATGTGATGTGGCAGGAG
GGCAGTGGTGGAGCTGGACCTGCCTGCTGAGTCACGTGTAACAGGATTATTATTAGTGTATTATGATGTAAAT
GGACTATGCACACTTTTAATTTTGTGAGTTACACATGCCACTATGAGCTTTCAGACTCCAGCTGTGAAGAGAC
TCTGTTTGCTTGTGTTTGTGTTTGTGAGTCTCTCTGCCATGGCCTTGGCAGGCTGCTGGAAGGCAGCTTGTG
GAGGCCGTTGGTTCCGCCCACTCATTCTCTGTCAGTCTTCTCTCTTCTCCTTACAGCTAAGATGCCATGTGCAGG
TGGATTCCATGCCGAGACATGAAATAAAGCTTTGCAAAGGCA

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FIGURE 2131

ATCTTCCGGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCTGACATATGTTCTCTAGGCCT
TTTAGAAAACATGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTCACCATGGCAAACTGGGAGTCTA
CGATGTTCCCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAA
TGTGCGTATTGAGCACATTACGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGCGTGAAGGAAAATGATCAGAA
AAAGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTTCAAGCTAAAGCGCCAGCCTGCTCCACCCAGAGAAACACACTT
TGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATTAATTCATGGCATAATAGGTGTTAAA
AAGAAAAATAAA

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FIGURE 2132

GGCAGCGCAGGGCAGACGGCGGCAGGAGAAGCAAGATGAATGCAGGCTCAGATCCTGTGGTCATCGTCTCGGCGG
CGCGGACCATCATAGGTTCCCTTCAATGGTGCCTTAGCTGCTGTTCCCTGTCCAGGACCTGGGCTCCACTGTCATCA
AAGAAGTCTTGAAGAGGGCCACTGTGGCTCCGGAAGATGTGTCTGAGGTCATCTTTGGACATGTCTTGGCAGCAG
GCTGTGGGCAGAATCCTGTGTAGACAAGCCAGTGTGGGTGCAGGAATCCCCTACTCTGTTCCAGCATGGAGCTGCC
AGATGATCTGTGGGTGAGGCCTAAAAGCTGTGTGCCTTGCAAGTCCAGTCAATAGGGATAGGAGACTCCAGCATTG
TGGTTGCAGGAGGCATGGAAAATATGAGCAAGGCTCCTCACTTGGCTTACTTGAGAACAGGAGTAAAGATAGGTG
AGATGCCACTGACTGACAGTATACTCTGTGATGGTCTTACAGATGCATTTCACTACTGTCATATGGGTATTACAG
CTGAAAATGTAGCCAAAAAATGGCAAGTGAGTAGAGAAGATCAGGACAAGGTTGCAGTTCTGTCCCAGAACAGGA
CAGAGAATGCACAGAAAGCTGGCCATTTTGACAAAGAGATTGTACCAGTTTTGGTGTCAACTAGAAAAGGTCTTA
TTGAAGTTAAACAGATGAGTTTCCTCGCCATGGGAGCAACATAGAAGCCATGTCCAAGCTAAAGCCTTACTTTC
TTACTGATGGAACGGGAACAGTCACCCAGCCAATGCTTCAGGAATAAATGATGGTGCTGCAGCTGTCTGTTCTTA
TGAAGAAGTCAGAAGCTGATAAACGTGGGCTTACACCTTTAGCACGGATAGTTTCTGTTCCCAAGTGGGTGTGG
AGCCTTCCATTATGGGAATAGGACCAATTCCAGCCATAAAGCAAGCTGTTACAAAAGCAGGTTGGTCACTGGAAG
ATGTTGACATATTTGAAATCAATGAAGCCTTTGCAGCTGTCTCTGCTGCAATAGTTAAAGAACTTGGATTAAACC
CAGAGAAGGTCAATATTGAAGGAGGGGCTATAGCCTTGGGCCACCCTCTTGGAGCATCTGGCTGTCTGAATTCTTG
TGACCCTGTTACACACACTGGAGAGAATGGGCAGAAGTCGTTGGTGTTCAGCCCTGTGCATTGGGGGTGGGATGG
GAATAGCAATGTGTGTTGAGAGAGAATGAATTGCTTAACTTTGAACAACCTCAATTTCTTTTAACTAATAAA
GTACTAGGTTGCAATATGTGAAATCAGAGGACCAAAGTACAGATGGAAACCATTTCTTACATCACAAAACCCAA
GTTTACAGCTTGACTTTACTTTAATGTGTAATACTCAACTCAAGGTACAAGACAATTGCATTTAACATTGTTAT
AAATAAAAGGAACATCAGATCAATCATT

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FIGURE 2133

MNAGSDPVVIVSAARTIIGSFNGALAAVPVQDLGSTVIKEVLKRATVAPEDVSEVIFGHVLAAGCGQNPVRQASV
GAGIPYSVPAWSCQMICGSGLKAVCLAVQSIGIGDSSIVVAGGMENMSKAPHLAYLRTGVKIGEMPLTDSILCDG
LTDAFHNCHMGITAENVAKKWQVSREDQDKVAVLSQNRTEAQAAGHFDKEIVPVLVSTRKGLIEVKTDEFPRHG
SNIEAMSKLKPYFLTDGTGTPTPANASGINDGAAAVVLMKKSEADKRGLTPLARIVSWSQVGVEPSIMGIGPIPA
IKQAVTKAGWSLEDVDIFEINEAFAAVSAAIVKELGLNPEKVNIEGGAIALGHPLGASGCRILVTLHTLERMGR
SRGVAALCIGGGMGIAMCVQRE

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FIGURE 2134

ACGTGTATCGCTGCCGTCAAGATGGAGGGGCCTTTGTCCGTGTTCCGGTGACCGCAGCACTGGGGAAACGATCCGC
TCCAAAACGTTATGGCTGCAGCTTCGATTGCCAATATTGTAAAAAGTTCTCTTGGTCCAGTTGGCTTGGATAAA
ATGTTGGTGGATGATATTGGTGATGTAACCATTACTAACGATGGTGCAACCATCCTGAAGTTACTGGAGGTAGAA
CATCCTGCAGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAAGAAGTTGGAGATGGAACACTTTCAGTG
GTTATTATTGCAGCAGAACTCCTAAAAATGCAGATGAATTAGTCAAAACAGAAAATTTCATCCCACATCAGTTATT
AGTGGCTATCGACTTGCTTGCAAGGAAGCAGTGCGTTATATCAATGAAAACCTAATTGTTAACACAGATGAACTG
GGAAGAGATTGCCTGATTAATGCTGCTAAGACATCCATGTCTTCCAAAATCATTGGAATAAATGGTGATTTCTTT
GCTAACATGGTAGTAGATGCTGTACTTGCTATTAAATACACAGACATAAGAGGCCAGCCACGCTATCCAGTCAAC
TCTGTTAATATTTTGAAAGCCCATGGGAGAAGTCAAATGGAGAGTATGCTCATCAGTGGCTATGCACTCAACTGT
GTGGTGGGATCCCAGGGCATGCCAAGAGAATCGTAAATGCAAAAATTGCTTGCCCTGACTTCAGCCTGCAAAAA
ACAAAATGAAGCTTGGTGTACAGGTGGTCATTACAGACCCCTGAAAACTGGACCAAATTAGACAGAGAGAATCA
GATATCACCAAGGAGAGAATTGAGAAGATCCTGGCAACTGGTGCCAATGTTATTCTAACCACTGGTGGAAATTGAT
GATATGTGTCTGAAGTATTTTGTGGAGGCTGGTGCTATGGCAGTTAGAAGAGTTTTAAAAAGGGACCTTAAACGC
ATTGCCAAAGCTTCTGGAGCAACTATTCTGTCAACCCTGGCCAATTTGGAAGGTGAAGAACTTTTGAAGCTGCA
ATGTTGGGACAGGCAGAAGAAGTGGTACAGGAGAGAATTTGTGATGATGAGCTGATCTTAATCAAAAATACTAAG
GCTCGTACGTCTGCATCGATTATCTTACGTGGGGCAAATGATTCATGTGTGATGAGATGGAGCGCTCTTTACAT
GATGCACTTTGTGTAGTGAAGAGAGTTTTGGAGTCAAAATCTGTGGTTCCCGGTGGGGGTGCTGTAGAAGCAGCC
CTTTCCATATACCTTGAAACTATGCAACCAGCATGGGGTCTCGGGAACAGCTTGGGATTGCAGAGTTTGCAAGA
TCACTTCTTGTTATTCCCAATACACTAGCAGTTAATGCTGCCCAGGACTCCACAGATCTGGTTGCAAAATTAAGA
GCTTTTCATAATGAGGCCCAGGTTAACCAGAACGTAAAAATCTAAAATGGATTGGTCTTGATTGAGCAATGGT
AAACCTCGAGACAACAAACAAGCAGGGGTGTTTGAACCAACCATAGTTAAAGTTAAGAGTTTGAAATTTGCAACA
GAAGCTGCAATCACCATTCTTCGAATTGATGATCTTATTAAATTACATCCAGAAAGTAAAGATGATAAACATGGA
AGTTATGAAGATGCTGTTCACTCTGGAGCCCTTAATGATTGATCTGATGTTCTTTTATTATAACAATGTTAAA
TGCAATTGCTTGTACCTTGAGTTGAGTATTACACATTAAAGTAAAGTACAAGCTGTAAACTTGGGTTTTGTGA
TGTAGGAAATGGTTTCCATCTGTACTTTGGTCCCTCTGATTTACATATTGCAACCTAGTACTTTATTAGTTAAA
AAGAAATTGAGGTTGTTCAAAGTTTAAGCAATTCATTCTCTCTGAACACACATTGCTATTCCCATCCACCCCCA
ATGCACAGGGCTGCAACACCAGACTTCTGCCATTCTCTCCAGTGTGTGTAACAGGGTCACAAGAATTC

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FIGURE 2135

TTTGCTTTTGCTTATTTCCGTCCATTTCCCTCTCTGCGCGCGGACCTTCCTTTTCCAGATGGTGAGAGCCGCGGG
GACACCCGACGCCGGGGCAGGCTGATCCACGATCCTGGGTGTGCGTAACGCCGCCCTGGGGCTCCGTGGGCGAGGG
ACGTGTGGGGACAGGTGCACCGGAAACTGCCAGACTGGAGAGTTGAGGCATCGGAGGCGCGAGAACAGCACTACT
ACTGCGGCGAGACGAGCGCGGCGCATCCCAAAGCCCGGCCAAATGCGCTCGTCCCTGGGAGGGGAGGGAGGCGCG
CCTGGAGCGGGGACAGTCTTGTTCCGCGCCCTCTCCCGGTCTGTGCGGGACCCGGGACCCGGGAGCCGTGCG
AGGTCTCGGTCCAAGGGGCCCTTTTCTCGGAAGGGCGGCGGCCAAGAGCAGGGAAGGTGGATCTCAGGTAGCGA
GTCTGGGCTTCGGGGACGGCGGGGAGGGGAGCCGGACGGGAGGATGAGCTCCCTGGCACCGAGAGCGCGGAAA
GAGCCTGCAGTACCGAGTGGACCACCTGCTGAGCGCCGTGGAGAATGAGCTGCAGGCGGGCAGCGAGAAGGGCGA
CCCCACAGAGCGCGAACTGCGCGTGGGCCTGGAGGAGAGCGAGCTGTGGCTGCGCTTCAAGGAGCTCACCAATGA
GATGATCGTGACCAAGAACGGCAGGAGGATGTTTCCGGTGCTGAAGGTGAACGTGTCTGGCCTGGACCCCAACGC
CATGTACTCCTTCCTGCTGGACTTCGTGGCGGCGGACAACCACCGCTGGAAGTACGTGAACGGGGAATGGGTGCC
GGGGGGCAAGCCGGAGCCGCGAGCGCCAGCTGCGTCTACATCCACCCGACTCGCCCAACTTCGGGGGCCACTG
GATGAAGGCTCCCGTCTCCTTCAGCAAAGTCAAGCTCACCAACAAGCTCAACGGAGGGGGCCAGATCATGCTGAA
CTCCTTGCCATAAGTATGAGCCTCGAATCCACATAGTGAGAGTTGGGGGTCCACAGCGCATGATCACCAGCCACTG
CTTCCCTGAGACCCAGTTTCATAGCGGTGACTGCTTATCAGAACGAGGAGATCACAGCTCTTAAATTAAGTACAA
TCCATTTGCAAAGCTTTTCTTGATGCAAAGGAAAGAAGTGATCACAAGAGATGATGGAGGAACCCGGAGACAG
CCAGCAACCTGGGTACTCCCAATGGGGGTGGCTTCTTCTGGAACCAGCACCCCTGTGTCCACCTGCAAATCCTCA
TCCTCAGTTTGAGAGGTGCCCTCTCCTCCCTCCACGCACAGCTGTGACAGGTACCCAACCTGAGGAGCCACCG
GTCCTCACCTTACCCAGCCCCATGCTCATCGGAACAATTCTCCAACCTATTCTGACAACTCACCTGCATGTTT
ATCCATGCTGCAATCCCATGACAATTGGTCCAGCCTTGGAAATGCCTGCCCATCCCAGCATGCTCCCGTGAGCCA
CAATGCCAGCCCACCTACCAGCTCCAGTCAGTACCCAGCCTGTGGTCTGTGAGCAACGGCGCCGTACCCCGGG
CTCCCAGGCAGCAGCCGTGTCCAACGGGCTGGGGGCCAGTTCTTCCGGGGCTCCCCGCGCACTACACACCCCT
CACCCATCCGGTCTCGGCGCCCTCTTCTCGGGATCCCCACTGTACGAAGGGGGCGCGGCCGACAGACATCGT
GGACAGCCAGTACGACGCCGAGCCCAAGGCCGCTCATAGCCTCATGGACACCTGTGTGCCACCTTCCATGTG
AAGCAGCAAGGCCAGGTCCCGAAAGATGCAGTGACTTTTGTGCTGGCAGCCAGTGGTGACTGGATTGACCTAC
TAGGTACCCAGTGGCAGTCTCAGGTTAAGAAGGAAATGCAGCCTCAGTAACTTCCTTTTCAAAGCAGTGGAGGAG
CACACGGCACCTTTCCCCAGAGCCCCAGCATCCCTTGCTCACACCTGCAGTAGCGGTGCTGTCCCAGGTGGCTTA
CAGATGAACCCAACTGTGGAGATGATGCAGTTGGCCCAACCTCACTGACGGTGAAAAAATGTTTGCCAGGGTCCA
GAAACTTTTTTTGGTTTATTTCTCATAAGTGTATTGGCAACTTTGGCACACCAGAATTTGTAACTCCACCAGT
CCTACTTTAGTGAGATAAAAAGCACACTCTTAATCTTCTTCTTGTGCTTTCAAGTAGTTAGAGTTGAGCTGTT
AAGGACAGAATAAAATCATAGTTGAGGACAGCAGSTTTTAGTTGAATTGAAAATTTGACTGCTCTGCCCCCTAGA
ATGTGTGATTTTTAAGCATATGTAGCTAATCTCTTGTGTTGTTAACTATAACTGTTTCAATTTTTCTTTTGAC
AAAGTAGCCAAAGACAATCAGCAGAAAGCATTTTCTGCAAAATAAACGCAATATGCAAAATGTGATTCTGTCAGT
TATTAGTGAAGCCCCCTCCTTTTGTGAGTATTTACTGTTTATTG

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FIGURE 2136

MSSPGTESAGKSLQYRVDHLLSAVENELQAGSEKGDPTERELRVGLEESELWLRFKELTNEMIVTKNGRRMFPVL
KVNVSGLDPNAMYSFLDFVAADNHRWKYVNGEWPVGGKPEPQAPSCVYIHPDSPNFGAHWMKAPVSFSKVCLTN
KLNGGGQIMLSLHKYEPRIHIVRVGGPQRMITSHCFPETQFIAVTAYQNEEITALKIKYNPFAKAFDAKERSD
HKEMMEEPGDSQQPGYSQWGWLPGTSTLCPPANPHPQFGGALSLPSTHSCDRYPTLRSHRSPYPSPYAHNRNS
PTYSDNSPACLQSHDNWSSLGMPAHPSMLPVSHNASPPTSSSQYPSLWSVSNNGAVTPGSQAAAVSNGLGAQF
FRGSPAHYTPLTHPVSAPSSSGSPLYEGAAAATDIVDSQYDAAAQGRLIASWTPVSPPSM

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FIGURE 2137

CGCAGCCGTGCGATGTTGTCTCTACAGCCATGTATTCGGCTCCTGGCAGAGACTTGGGGATGGAACCGCACAGA
GCCGCGGGCCCTTTGCAGCTGCGATTTTCGCCCTACGTTTTCAACGGAGGTACTATACTGGCAATTGCTGGAGAA
GATTTTGCAATTGTTGCTTCTGATACTCGATTGAGTGAAGGGTTTTCAATTCATACGCGGGATAGCCCCAAATGT
TACAAATTAACAGACAAAACAGTCATTGGATGCAGCGGTTTTCATGGAGACTGTCTTACGCTGACAAAGATTATT
GAAGCAAGACTAAAGATGTATAAGCATTCCAATAATAAGGCCATGACTACGGGGGCAATTGCTGCAATGCTGTCT
ACAATCCTGTATTCAAGGCGCTTCTTTCCATACTATGTTTACAACATCATCGGTGGACTTGATGAAGAAGGAAAG
GGGGCTGTATACAGCTTTGATCCAGTAGGGTCTTACCAGAGAGACTCCTTCAAGGCTGGAGGCTCAGCAAGTGCC
ATGCTACAGCCCCTGCTTGACAACCAGGTTGGTTTTAAGAACATGCAGAATGTGGAGCATGTTCCGCTGTCCTTG
GACAGAGCCATGCGGCTGGTGAAAGATGTCTTCATTTCTGCGGCTGAGAGAGATGTGTACACTGGGGACGCACTC
CGGATCTGCATAGTGACCAAAGAGGGCATCAGGGAGGAAACTGTTTCCTTAAGGAAGGACTGATCTGTGTGCTCT
TATCACCAATCAGTTCAGACCTGGTTGATTTTGTACTTTGGAAGTGTACCTTGGATGGTTTTGTTTATTAAAA

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FIGURE 2138

MLSSTAMYSAPGRDLGMEPHRAAGPLQLRFSPYVFNGGTILAIAGEDFAIVASDTRLSEGFSIHTRDSPKCYKLT
DKTVIGCSGFHGDCLTLTKIIEARLKMYKHSNNKAMTTGAIAAMLSTILYSRRFFPYVYNIIGGLDEEGKGAVY
SFDVPGSYQRDSFKAGGSASAMLQPLLDNQVGFKNMQNVEHVPLSLDRAMRLVKDVFISAAERDVYTGDA LRICI
VTKEGIREETVSLRKD

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FIGURE 2139

GCTCCCAGCCGGGCCCCCTCAGCGGTGCGCGGGACGGCTCCCGGCTGCAGTCTGCCCGCCCCGCCGCGGGGGC
CGAGTCGCGAAGCGCGCCTGCGACCCGGCGTCCGGGCGCGCTGGAGAGGACGCGAGGAGCCATGAGGCGCCAGCC
TGCGAAGGTGCGCGCGCTGCTGCTCGGGCTGCTCTTGGAGTGCACAGAACCCAAAAAGCATTGCTGGTATTTGCA
AGGACTCTATCCAACCTATTATATATGCCGCTCCTACGAGGACTGCTGTGGCTCCAGGTGCTGTGTGCGGGCCCT
CTCCATACAGTGGCTGTGGTACTTCTGGTTCTTCTGATGATGGGCGTGCTTTTCTGCTGCGGAGCCGGCTTCTT
CATCCGGAGGCGCATGTACCCCCCGCGCTGATCGAGGAGCCAGCCTTCAATGTGTCTACACCAGGCAGCCCCC
AAATCCCGGCCAGGAGCCAGCAGCCGGGGCCACCCTATTACACCGACCCAGGAGGACCGGGGATGAACCTGT
CGGGAATTCCATGGCAATGGCTTTCAGGTCCCACTCACTCAGGGGAGTGTGGCTGCCCGCCCCCTCC
AGCCTACTGCAACACGCCTCCGCCCCGTACGAACAGGTAGTGAAGGCCAAGTAGTGGGGTGCCACGTGCAAGA
GGAGAGACAGGAGAGGGCCCTTTCCTGGCCTTCTGTCTTCTGTGATGTTCACTTCCAGGAACGGTCTCGTGGGC
TGCTAAGGGCAGTTTCTCTGATATCTCAGCAAGCACAGCTCTCTTTCAGGCTTTCATGGAGTACAATATAT
GAACTCACACTTTGTCTCTCTGTGCTTCTGTTTCTGACGCAGTCTGTGCTCTCACATGGTAGTGTGGTGACAG
TCCCCGAGGGCTGACGTCTTACGGTGGCGTGACCAGATCTACAGGAGAGAGACTGAGAGGAAGAAGGCAGTGT
GGAGGTGCAGGTGGCATGTAGAGGGGCCAGGCCGAGCATCCAGGCAAGCATCTTCTGCCCGGGTATTAAATAGG
AAGCCCCACGCCGGGCGGCTCAGCCGATGAAGCAGCAGCCGACTGAGCTGAGCCCAGCAGGTCTCTGCCAGC
CTGTCTCTCTGTCAGCCTTCTCTTCCAGAAGCTGTTGGAGAGACATTGAGGAGAGCAAGCCCCCTTGTCTAGT
TTCTGTCTCTGTTTATATCCTAAAGATAGACTTCTCTGACCCGCGGGAAGGGTAGCACGTGCACTCTCACC
GCAGGATGGGGCCTAGAATCAGGCTTGCCCTGGAGGCTGACAGTGATCTGACATCCACTAAGCAAATTTATTTA
AATTCATGGGAAATCACTTCTGCCCCAACTGAGACATTGCATTTTGAGCTCTTGGTCTGATTGGAGAAAG
GACTGTTACCCATTTTTTGGTGTGTTTATGGAAGTGCATGTAGAGCATCTGCCCTTTGAAATCAGACTGGGTGT
GTGCTTCCCTGGACATCACTGCCTCTCCAGGTCACTTCTCAGGCCCGGGGTCTCCTTCCCTCAGGCAGCTCCAG
TGGTGGGTCTGAAGGGTGCTTTCAAACAGGGGGCACATCTGGCTGGGAAGTCACTGGACTCTTCCAGGGAGA
GAGACCAGCTGAGGCGTCTCTCTCTGAGGTGTGTTGGGTCTAAGCGGTGTGTGCTGGGCTCCAAGGAGGAGGA
GCTTGCTGGGAAAAGACAGGAGAAGTACTGACTCACTGCACTGACCATGTTGTCTATAATTAGAAATAAGAAGAA
GTGGTTGGAAATGCACATTCTGGATAGGAATCACAGCTCAGGATCTCACAGGTAGTCTCCTGAGTAGTT
GACGGCTAGCGGGGAGCTAGTTCCGCCGCATAGTTATAGTGTGATGTGTAACGCTGACCTGTCTGTGTGCTA
AGAGCTATGCAGCTTAGCTGAGGCGCTAGATTACTAGATGTGCTGTATCAGGGGAATGAGGTGGGGGTGCTTA
TTTTTTAATGAACTAATCAGAGACTCTTGAGAAATTGTTACTCATTGAACTGGAGCATCAAGACATCTCATGGAA
ATGGATACGGAGTGATTGGGTGTCCATGCTTTTCACTCTGAGGACATTTAATCGGAGAACCTCCTGGGGAATTTT
GTGGGAGACACTTGGGAACAAAACAGACACCCCTGGGAATGCAGTTGCAAGCACAGATGCTGCCACCAGTGTCTCT
GACCACCCTGGTGTGACTGCTGACTGCCAGCGTGTTACCTCCCATGCTGCAGGCCTCCATCTAAATGAGACAACA
AAGCACAATGTTCACTGTTTACAACCAAGACAAGTGCCTGGGTCCAAACACTCCTCTTCCAGGTCAATTTGTT
TTGCATTTTAAATGTCTTTATTTTTGTAAATGAAAAGCACACTAAGCTGCCCTGGAATCGGGTGCAGCTGAAT
AGGCACCCAAAAGTCCGTGACTAAATTTTCGTTTGTCTTTTGTATAGCAAATAATGTTAAGAGACAGTGATGGCTA
GGGCTCAACAATTTGTATTCCCATGTTTGTGTGAGACAGAGTTTGTCTTCCCTTGAACCTGGTTAGAATTGTGC
TACTGTGAACGCTGATCCTGCATATGGAAGTCCCACTTCGGTGACATTTCTGCGCATTTCTGTTTCCATTGTGT
GGATGGTGGGTGTGCCCCACTTCCCTGGAGTGAGACAGCTCCTGGTGTGTAGAATTCCCGGAGCGTCTGTGGTTCA
GAGTAACTTGAAGCAGATCTCTGCATGCTTTTCTCTGCAACAATTGGCTCATTTCTTTTTTGTCTCTTTT
GATAGGATCCTGTTTCTATGTGTGCAAAATAAAATAAATTGGGCAA

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FIGURE 2140

ATGGCAGGGGAGTCACAAAGGAGAAGCACTCAGCCTGCCGAGAGGTCCCAGGACTTTCCTGGAGGATCAGTCCCC
AAACTGACTGTGACAGGGAGCTATACCCAGATAACAGCAGAGGCCCAAGATAAGAAAGAGTCTGTAGATGGCAAG
TCAATGGGAAATCATTCCAGGAAGGTAGGGAAAGATGGAATTCTGGAGAGCATTGGACCTCAGATTGGGAGTCTG
AACGTCTTTCCATATGCATCAGGAAGCCATGGAAAATTCACAGACTGGAGTGACTTTGGCAAAGGAACAACATAT
AACGCACTCTCCCCTGAACTCTACACAACATATTTTGTACCAAGACCCTACTTCTGACCTCCCTGTTCTTATGC
ATTGGAACAGCATACCCCCGATTCCGCTACGACCAACTCATAACCTCCTATGA

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FIGURE 2141

CTAAATACTACCGTATGACCCACCATAATTACCCCCATACTCCTTACACTATTCCCTCATCACCCAACTAAAAATA
TTAAATACAAATTACCACCTACCTCCCTCACCAGCCCATAAAAATAAAAACTATAACAAACCCTGAGAACCA
AAATGAACGAAAATCTGTTCACTTCATTTCATTGCCCCACAATCCTAGGCCTACCCGCCGCGAGTACTGATCATT
TATTTCCCCCTCTATTGATCCCCACCTCCAAATATCTCATCAACAACCGACTAATTACCACCCCAACAATGACTAA
TCCAATAACCTCAAAACAAATGATAGCCATACACAACACTAAGGGACGAACCTGATCTCTTATACTAGTATCCT
TAATCATTTTTTATTGCCACAATAACCTCCTCGGACTCCTGCCTCACTCATTTACACCAACCACCCAACTATCTA
TAAACCTAGCCATGGCCATCCCCCTTATGAGCGGGCGCAGTGATTATAGGCTTTTCGCTCTAAGATTAAAAATGCCC
TAGCCCACTTCTTACCACAAGGCACACCTACACCCCTTATCCCTATACTAGTTATTATCGAAACCATCAGCCTAC
TCATTCAACCAATAGCCCTGGCCGTACGCCTAACCGCTAACATTACTGCAGGCCACCTACTCATGCACCTAATTG
GAAGCGCCACACTAGCAATATCAACTATTAACCTTCCCTCTACACTTATCATCTTCACAATTCTAATTCTACTGA
CTATCCTAGAAATCGCTGTGCGCTTAATCCAAGCCTACGTTTTTACACTTCTAGTAAGCCTCTACCTGCACGACA
ACACATAATGACCCACCAATCACATGCCTATCATATAGTAAAACCCAGCCCATGGCCCCCTAACAGGGGGCCCTCTC
AGCCCTCCTAATGACCTCCGGCCTAGCCATGTGATTTCACCTCCACTCCACAACCCTCCTCATACTAGGCCTACT
AACCAACACACTAACCATATACCAATGATGGCGCGATGTAACACGAGAAAGCACATACCAAGGCCACCACACACC
ACCTGTCCAGAAAGGCCTTCGATACGGGATAATCCTATTTATTACCTCAGAAGTTTTTTTCTTCGCAGGATTTTT
CTGAGCCTTTTACCACCTCCAGCCTAGCTCCCACCCCCCACTAGGGGGACACTGGCCCCCAACAGGCATCACCCC
GCTAAATCCCCTAGAAGTCCCACTCCTAAACACATCCGTATTACTCGCATCAGGGGTATCAATCACCTGAGCTCA
CCATAGTCTAATAGTCTATTTTACCCTCCTACAAGCCTCAGAGTACTTCGAG

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FIGURE 2142

GTGGGAACATCCAGTTGCGGGAAAACAAGCTTAACACGCCCCTGATTCTACATTATGCTCCTACCTCCCGGCAG
CCTCTCCAGGCCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCC
CATAACCTACGTACGGCAGCCTCCGCAGATGAGCCTACTGCCTCACAAACAGCCTCCACAGGCACAGCTCCATCG
TTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCT
CACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCCA
GCCTCTGCCTCCCGTCAGCCTCTACAGTCCCAACGTCTGCCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTC
ACTTGGACCCCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCGGCAGCCTCT
CCAGGCCCAGCTCCTCCTGCCTCCCAGTGGCCTCTTTCGGGCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCA
AGCCCGCTTTTGACTTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCCAGCCTCCTGCCTCCCGAAGGCCTGCAC
AGGCCCAGCCTCTGCCTCACAGCGGACTCTC

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FIGURE 2143.

MLPPGSLSRPRTFSSQPLQTKLMTHNGLFRPIPYLTAVSADEPTASQQPPQAQLHRYNGLFRPSSCLPAFSPGP
ELSQVDLTRPSSCFFAASPGPTPASWWPLQAQPVPPVGLYNPNICLTADSSRPASASQWTLQTMVSHCGILRRS
SCLSAASPGPAPPASQWPLSAQPSSCLPAAFPSPAFDFWWPLQASTRPSLLPPEGLHRPSICLTADSPRPASSRL
TAASPVQSSCLSATSAGPATAQWPL

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FIGURE 2144

CTCTCTCACACACACCCCGCTTGGGCCTCCTCTCTCTCTCCGGCTCCATTTTCTCCGCCGCCGGGGGCCGGGGT
CTCCTGTGGGGGGGCCAGCCGGTATCCCAGGTCTCCCTTCAGTGCCGGGGTGAACCCCGGGGGAGCCGGGAGCC
GGGGGCAGACGGGCGGGGGTTGGGGCGGAGGGAGCAGCGGCCCCAGCGAGTTTGGGGGGAGAAGTAACCAGGCGG
GGGGAGGGGCGGAGCAGGGAGGGGGCCTCAGGGCCCCCCCCAGCTATGGACGAACGGCTACTGGGGCCGCCCCC
TCCAGGCGGGGGCCGGGGGGGCTGGGATTGGTGAGTGGGGAGCCTGGGGGCCCTGGCGAGCCTCCCGGTGGCGG
AGACCCCGTGGGGGTAGCGGGGGGTCCCGGGAGGCCGAGGGAAGCAAGACATCGGGGACATTCTGCAGCAGAT
AATGACCATCACCGACCAGAGCCTGGACGAGGCCAGGCCAAGAAACACGCCCTAAACTGCCACCGAATGAAGCC
TGCTCTCTTTAGCGTCTGTGTGAAATCAAGGAGAAAAGTGGCCTCAGCATTTCGGAGCTCCCAGGAGGAGGAGCC
GGTGGACCCACAGCTGATGCGCTTGGACAACATGCTTCTGGCAGAGGGTGTGGCTGGGCCCCGAGAAAGGGGGCGG
CTCAGCAGCAGCAGCTGCAGCCGCTGCAGCCTCTGGTGGTGGTGTGTCCCCTGACAACTCCATCGAACACTCGGA
CTATCGCAGCAAACTTGCCAGATCCGTCACATATAACACTCGGAGCTGGAGAAGTATGAGCAGGCATGTAATGA
GTTACAGACCCATGTCATGAACCTGCTGAGGGAGCAGAGCCGCACCAGGCCCGTGGCCCCAAAGAGATGGAACG
CATGGTGAGCATCATCCATCGAAAGTTCAGCGCCATCCAGATGCAGCTGAAGCAGAGCACCTGCGAGGCTGTGAT
GATCCTGCGCTCCCGTTTCTGGATGCCAGACGAAAGCGCCGTAACCTCAGCAAACAGGCCACTGAGGTCCTAAA
TGAGTATTTCTACTCCACCTGAGTAACCCATATCCTAGTGAGGAGGCCAAGGAGGAGCTTGCCAAGAAGTGTGG
CATCACCGTGTCTCAGGTCTCCAAGTGGTTTGGCAACAAGAGGATTCGCTATAAGAAAAACATCGGAAAGTTCCA
AGAGGAGGCAACATCTATGCTGTCAAGACCGCCGTGTCAGTCACCCAGGGGGGCCACAGCCGCACCAGCTCCCC
GACACCCCTTCTCTGCAGGTGGATCCCACTGTACCCAGCTGACTGTTTTGCACACTTCCTGCTTTTGTTC
CACTTCCTATCTAGGCAGGATCATAGCAGAGAGGGGGCCTTTTGGGGTGAGAGGGACCGAGCTGAGATAGGCTGG
AGATGTGAGGGGACAGAGGCCATTCCAGTGATCTTAGTTCTGCCTTTCTTCCACGGGTGGCCAAGGAACAGCCT
GCTCTTTCTGTGTGTGGAATGTTATTTTGTGGATAATTGGAGTATAGTAGCATGTCCCCAC

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FIGURE 2145

GAGTAGAGTAGGGCAGGAGAACTGGGCCAGGCTGCACTTAGCTCAAGGGGCCTCGAGGACTCTCTGCGTCTCTG
GAGACAAGGGCACTACACGCACTTCAGAATGAAGAGTTGCGGGAGCATGCTGGGGCTCTGGGGCAGCGGCTCCC
CGCGGCGTGGGTCTGCTTCTGTTGCCTTTCTGCGGCTGCTGCTGCTTGCAGCCCCGCGCCCCACCGCGAGTC
CTACAAGCCGGTCATCGTGGTGATGGGCTCTTCGACAGCTCGTACAGCTTCCGCCACCTGCTGGAATACATCAA
TGAGACACACCCCGGGACTGTGGTGACAGTGCTCGATCTCTTCGATGGGAGAGAGAGCTTGGGACCCCTGTGGGA
ACAGGTGCAAGGGTTCGAGAGGCTGTGGTCCCCATCATGGCAAAGGCCCTCAAGGGGTGCATCTCATCTGCTA
CTCGCAGGGGGGCTTGTGTGCGGGCTCTGCTTTCTGTCTATGGATGATCACAACGTGGATTCTTTTCATCTCCCT
CTCCTCTCCACAGATGGGACAGTATGGAGACACGGACTACTTGAAGTGGCTGTTCCCACTCCATGCGGTCTAA
CCTCTATCGGATCTGCTATAGCCCCTGGGGCCAGGAATTCTCCATCTGCAACTACTGGCATGATCCCCACCACGA
TGACTTGTACCTCAATGCCAGCAGCTTCTGGCCCTGATCAATGGGGAAAGAGACCATCCCAATGCCACAGTATG
GCGGAAGAACCTTCTGCGTGTGGGCCACCTGGTGTGCTGATTGGGGGCCCTGATGATGGTGTATTACTCCCTGGCA
GTCCAGCTTCTTTGGTTTCTATGATGAAATGAGACCGTCTGGAGATGGAGGAGCAACTGGTTTATCTGCGGGA
TTCTTTTGGGTTGAAGACTCTATTGGCCCGGGGGCCATAGTGAGGTGTCCAATGGCCGGTATCTCCACACAGC
CTGGCACTCCAACCGTACCCCTTATGAGACCTGCATTGAACCTTGGCTCTCCTGAGGATATATTAGGGGTCCCC
AGGAACCTCCTCGGTCCAGAGACCAAGTGGTGGCCTTGGAAGCAGATGTCAGGCTTTGGTGTGCCTGTGACCAC
TCATTGCTCCCATATTATCCCCCATTTTATGAGAGACGGGGTTTTAGTAGAGACTTGGCCTCCAGAACCCCT
TCCTCTGCTCCTCCATGAATGACAATTCCAGGCCTCCCCTACCTCATGTCTCTCATTGGGGGATTGCTCCGTG
CTGTCCCTTTCTCTCAAGGCCGAAGTTGGGAAGTGAGAAACCATGTTTTAACTTGTGGCTGCTTTTGTGCTGC
TGCTCCTCCGTATCTGGCTGTATGGGTGGGAGAACCCACCCCTGCCACACAGGGGTCTCCTTCCAGGCCACTC
AGGACATTTTATAGCTTCTCTCCTCCCATGTTCCCTTTTTCTCTAAAGTCCCCTGACATCAGCCCTCCCAACTC
CTAAGAGGGACTACCCATGAGAGTGGGGTCTGAGGCTCCCCTATGGGGACAGTTCCGTTCTTGAAGTGTGAGTG
TTGGGGAATATCTGTGGCCTATGAGGCCATCTCAGGTTTGGGGATCCCCAGTCCCTATGATCAGTGTGGAGT
ACCCCTTGGGAGAGCCTAGTTTCTTTGAGGCCCGAGGCCCTCTTTTAACTACCTTTGAATAGGTGTTATCCCTG
TATTTATGAAATAAAGTTCATTTCTC

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FIGURE 2146A

AGAAGGTAGCAGACAGACAGACGGATCTAACCTCTCTTGGATCCTCCAGCCATGAGGCTGCTCTGGGGGCTGATC
TGGGCATCCAGCTTCTTACCTTATCTCTGCAGAAGCCCAGGTTGCTCTTGTCTCTCCTTCTGTGGTTCATCTG
GGGGTCCCCCTATCGGTGGGGGTGCAGCTCCAGGATGTGCCCCGAGGACAGGTAGTGAAAGGATCAGTGTTCCTG
AGAAACCCATCTCGTAATAATGTCCCTGCTCCCCAAAGGTGGACTTCACCTTAGCTCAGAAAGAGACTTCGCA
CTCCTCAGTCTCCAGGTGCCCTTGAAAGATGCGAAGAGCTGTGGCCTCCATCAACTCCTCAGAGGCCCTGAGGT
CAGCTGGTGGCCCATTCGCCATGGCTAAAGGACTCTCTGTCCAGAACGACAAACATCCAGGGTATCAACCTGCTC
TTCTCTCTCGCCGGGGGCACCTCTTTTGCAGACGGACAGCCCATTTACAACCTGGCCAGCGGGTTCGGTAC
CGGGTCTTTGCTCTGGATCAGAAGATGCGCCCCGAGCACTGACACCATCACAGTCATGGTGGAGAACTCTCACGGC
CTCCGCGTGCGGAAGAAGGAGGTGTACATGCCCTCGTCCATCTTCCAGGATGACTTTGTGATCCCAGACATCTCA
GAGCCAGGGACCTGGAAGATCTCAGCCCGATTCTCAGATGGCCTGGAATCCAACAGCAGCACCCAGTTTGAGGTG
AAGAAATATGTCTTCCCAACTTTGAGGTGAAGATCACCCCTGGAAAGCCCTACATCCTGACGGTGCCAGGCCAT
CTTGATGAAATGCAGTTAGACATCCAGGCCAGGTACATCTATGGGAAGCCAGTGCAGGGGGTGGCATATGTGCGC
TTTGGGCTCCTAGATGAGGATGGTAAGAAGACTTTCTTTCGGGGGCTGGAGAGTCAGACCAAGCTGGTGAATGGA
CAGAGCCACATTTCCCTCTCAAAGGCAGAGTTCAGGACGCCCTGGAGAAGCTGAATATGGGCATTACTGACCTC
CAGGGGCTGCGCCTCTACGTTGCTGCAGCCATCATTGAGTCTCCAGGTGGGAGATGGAGGAGGCAGAGCTCACA
TCCTGGTATTTTGTGTCTCTCCCTTCTCCTTGGATCTTAGCAAGACCAAGCGACACCTTGTGCTGGGGCCCC
TTCTGCTGCAGGCCCTTGGTCCGTGAGATGTGAGGCTCCCCAGCTTCTGGCATTCCTGTCAAAGTTTCTGCCACG
GTGTCTTCTCCTGGGTCTGTCTCTGAAGTCCAGGACATTCAGCAAAACACAGACGGGAGCGGCCAAGTCAGATT
CCAATAATATCCCTCAGACCATCTCAGAGCTGCAGCTCTCAGTATCTGCAGGCTCCCCACATCCAGCGATAGCC
AGGCTCACTGTGGCAGCCCCACCTTCAGGAGGCCCCGGGTTTCTGTCTATTGAGCGGCCGATTCTCGACCTCCT
CGTGTGGGGACACTCTGAACCTGAACCTGCGAGCCGTGGGCACTGGGGCCACCTTTTCTCATTACTACTACATG
ATCCTATCCCCAGGGCAGATCGTGTTCATGAATCGAGAGCCCAAGAGGACCTGACCTCGGTCTCGGTGTTTGTG
GACCATCACCTGGCACCTCCTTCTACTTTGTGGCCTTCTACTACCATGGAGACCACCCAGTGGCCAACCTCCCTG
CGAGTGGATGTCCAGGCTGGGGCCTGCGAGGGCAAGCTGGAGCTCAGCGTGGACGGTGCCAAGCAGTACCGGAAC
GGGAGTCCGTGAAGCTCCACTTAGAAACCGACTCCCTAGCCCTGGTGGCGCTGGGAGCCTTGGACACAGCTCTG
TATGCTGCAGGCAGCAAGTCCACAAGCCCCCAACATAGGCAAGGTCTTTGAAGCTATGAACAGCTATGACCTC
GGCTGTGGTCTTGGGGTGGGGACAGTGCCTTCAGGTGTTCCAGGCAGCGGCTGGCCTTTTCTGATGGAGAC
CAGTGGACCTTATCCAGAAAGAGACTAAGCTGTCCCAAGGAGAAGACAACCCGAAAAAGAGAAACGTGAACCTC
CAAAAGGCGATTATGAGAAATTGGGTGAGTATGCTTCCCCGACAGCCAAGCGCTGCTGCCAGGATGGGGTGACA
CGTCTGCCCATGATGCGTTCTCTGCGAGCAGCGGGCAGCCCGCGTGCGAGCAGCCGGACTGCCGGGAGCCCTTCTG
TCCTGTGCCAATTTGCTGAGAGTCTGCGCAAGAAGAGCAGGGACAAGGGCCAGGCGGCTCCACAGGCCCTG
GAGATCCTGCAGGAGGAGGACCTGATTGATGAGGATGACATTCCCGTGCAGCTTCTTCCCAGAGAAGTGGCTC
TGGAGAGTGGAAACAGTGGACCGCTTTCAAATATTGACACTGTGGCTCCCCGACTCTCTGACCACGTGGGAGATC
CATGGCCTGAGCCTGTCCAAAACCAAGGCCATGTGTGGCCACCCAGTCCAGCTCCGGGTGTTCCGCGAGTTC
CACCTGCACCTCCGCTGCCATGTCTGTCCGCCCTTTGAGCAGCTGGAGCTGCGGCTGTCTCTATAACTAC
CTGGATAAAAACCTGACTGTGAGCGTCCACGTGTCCCCAGTGGAGGGGCTGTGCCTGGCTGGGGGCGGAGGGCTG
GCCCAGCAGGTGCTGGTGCTGCGGGCTCTGCCCGGCTGTTGCCTTCTCTGTGGTGCCACGGCAGCCACCGCT
GTGTCTCTGAAGGTGGTGGCTCGAGGGTCTTCAATTCCCTGTGGGAGATGCGGTGTCCAAGGTTCTGCAGATT
GAGAAGGAAGGGGCCATCCATAGAGAGGAGCTGGTCTATGAACCAACCCCTTGGACCACCGAGGCCGACCTTG
GAAATACCTGGCAACTCTGATCCCAATATGATCCCTGATGGGGACTTTAACAGCTACGTGAGGGTTACAGCCTCA
GATCCATTGGACACTTTAGGCTCTGAGGGGGCTTGTACACAGGAGGCGTGGCCTCCCTCTTGAAGCTCTCTCGA
GGCTGTGGGGAGCAAACATGATCTACTTGGCTCCGACACTGGCTGCTTCCCGCTACCTGGACAAGACAGAGCAG
TGGAGCACACTGCCTCCCGAGACCAAGGACCACGCCGTGGATCTGATCCAGAAAGGCTACATGCGGATCCAGCAG
TTTCGGAAGGCGGATGGTTCCTATGCGGCTTGGTGTACGGGGCAGCAGCACCTGGCTCACAGCCTTTGTGTTG
AAGGTCTGAGTTTGGCCAGGAGCAGGTAGGAGGCTCGCCTGAGAACTGCAGGAGACATCTAACTGGCTTCTG
TCCCAGCAGCAGGCTGACGGCTCGTTCAGGACCTCTCTCAGTGATACATAGGAGCATGCAGGGGGGTTGGTG
GGCAATGATGAGACTGTGGCACTCACAGCCTTTGTGACCATCGCCCTTCATCATGGGCTGGCCGTCTTCCAGGAT
GAGGGTGCAGAGCCATTGAAGCAGAGAGTGAAGCCTCCATCTCAAAGGCAAGCTCATTTTGGGGGAGAAAGCA

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FIGURE 2146B

AGTGCTGGGCTCCTGGGTGCCCACGCAGCTGCCATCACGGCCTATGCCCTGACACTGACCAAGGCCCTGCGGAC
CTGCGGGGTGTTGCCACAACAACCTCATGGCAATGGCCAGGAGACTGGAGATAACCTGTACTGGGGCTCAGTC
ACTGGTTCTCAGAGCAATGCCGTGTCGCCACCCCGGCTCCTCGCAACCCATCCGACCCCATGCCCCAGGCCCA
GCCCTGTGGATTGAAACCACAGCCTACGCCCTGCTGCACCTCCTGCTTCACGAGGGCAAAGCAGAGATGGCAGAC
CAGGCTGCGGCCCTGGCTCACCCGTGAGGGCAGCTTCCAAGGGGGATTCCGCAGTACCCAAGACACGGTGATTGCC
CTGGATGCCCTGTCTGCCTACTGGATTGCCTCCACACCACTGAGGAGAGGGGTCTCAATGTGACTCTCAGCTCC
ACAGGCCGGAATGGGTTCAAGTCCCACGCGCTGCAGCTGAACAACCGCCAGATTTCGCGGCCCTGGAGGAGGAGCTG
CAGTTTTCTTGGGCAGCAAGATCAATGTGAAGGTGGGAGGAAACAGCAAAGGAACCTGAAGGTCTTCGTACC
TACAATGTCTGGACATGAAGAACACGACCTGCCAGGACCTACAGATAGAAGTGACAGTCAAAGGCCACGTCCGAG
TACACGATGGAAGCAAACGAGGACTATGAGGACTATGAGTACGATGAGCTTCCAGCCAAGGATGACCCAGATGCC
CCTCTGCAGCCCGTGACACCCCTGCAGCTGTTTGAGGGTCGGAGGAACCGCCGCAGGAGGGAGGCGCCCAAGGTG
GTGGAGGAGCAGGAGTCCAGGGTGCACTACACCGTGTGCATCTGGCGGAACGGCAAGGTGGGGCTGTCTGGCATG
GCCATCGCGGACGTCACCCCTCTGAGTGGATTCCACGCCCTGCGTGCTGACCTGGAGAAGCTGACCTCCCTCTCT
GACCGTTACGTGAGTCACTTTGAGACCGAGGGGCCCCACGTCCTGCTGTATTTTGA CTGGTCCCCACCTCCCCG
GAGTGCGTGGGCTTTGAGGCTGTGCAGGAAGTGCCGTGGGGCTGGTGAGCCGGCCAGCGCAACCTGTACGAC
TACTACAACCCCGAGCGCAGATGTTCTGTGTTTTACGGGGCACCAAGTAAGAGCAGACTCTTGGCCACCTTGTGT
TCTGCTGAAGTCTGCCAGTGTGCTGAGGGGAAGTGCCCTCGCCAGCGTCGCGCCCTGGAGCGGGGTCTGCAGGAC
GAGGATGGCTACAGGATGAAGTTTGCTGCTACTACCCCGTGTGGAGTACGGCTTCCAGGTTAAGGTTCTCCGA
GAAGACAGCAGAGCTGCTTTCCGCCTCTTTGAGACCAAGATCACCCAAGTCTGCACTTCAACCAAGGATGTCAAG
GCCGCTGCTAATCAGATGCGCAACTTCCTGGTTGAGCCTCCTGCCGCTTCGCTTGGAACCTGGGAAAGAATAT
TTGATCATGGGTCTGGATGGGGCCACCTATGACCTCGAGGGACACCCCAAGTACCTGCTGGACTCGAATAGCTGG
ATCGAGGAGATGCCCTCTGAACGCTGTGCCGGAGCACCCGCCAGCGGGCAGCCTGTGCCAGCTCAACGACTTC
CTCCAGGAGTATGGCACTCAGGGGTGCCAGGTGTGAGGGCTGCCCTCCACCTCCGCTGGGAGGAACCTGAACCT
GGGAACCATGAAGCTGGAAGCACTGCTGTGTCGCTTTCATGAACACAGCCTGGGACCAGGGCATATTAAAGGCT
TTTGGCAGCAAAGTGTCAGTGTTGGC

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FIGURE 2147

TGTGGCCACCCAGTTCAGCTCCGGGTGTTCCGCGAGTTCACCTGCACCTCCGCCTGCCCATGTCTGTCCGCCG
CTTTGAGCAGCTGGAGCTGCGGCCTGTCTCTATAACTACCTGGATAAAAACTGACTGTGAGCGTCCACGTGTC
CCCAGTGGAGGGGCTGTGCCTGGCTGGGGGCGGAGGGCTGGCCCAGCAGGTGCTGGTGCCCTGCGGGCTCTGCCCG
GCCTGTTGCCTTCTCTGTGGTGGCCACGGCAGCCACCGCTGTGTCTCTGAAGGTGGTGGCTCGAGGGTCTTTCGA
ATCCCTGTGGGAGATGCGGTGTCCAAGGTTCTGCAGATTGAGAAGGAAGGGGCCATCCATAGAGAGGAGCTGGT
CTATGAACCTCAACCCCTTGGACCACCGAGGCCGGACCTTGGAAATACCTGGCAACTCTGATCCCAATATGATCCC
TGATGGGGACTTTAACAGCTACGTCAGGGTTACAGCCTCAGATCCATTGGACACTTTAGGCTCTGAGGGGGCCTT
GTCACCAGGAGGCGTGGCCTCCCTCTTGAGGCTTCTCGAGGCTGTGGGGAGCAAACCATGATCTACTTGGCTCC
GACACTGGCTGCTTCCCGCTACCTGGACAAGACAGAGCAGTGGAGCACACTGCCTCCCGAGACCAAGGACCACGC
CGTGGATCTGATCCAGAAAGGCTACATGCGGATCCAGCAGTTTCGGAAGGCGGATGGTTCCTATGCGGCTTGGTT
GTCAGGGGGCAGCAGCAGCTGGCTCAGAGCCTTTGTGTGAAGGTCTGAGTTTGGCCCAGGAGCAGGTAGGAGG
CTCGCCTGAGAACTGCAGGAGACATCTAACTGGCTTCTGTCCCAGCAGCAGGCTGACGGCTCGTTCCAGGACCT
CTCTCCAGTGATACATAGGAGCATGCAAGGGGGTGGTGGGCAATGATGAGACTGTGGCACTCACAGCCTTTGT
GACCATCGCCCTTCATCATGGGCTGGCCGTCTTCCAGGATGAGGGTGCAAGCCATTGAAGCAGAGAGTGAAGC
CTCCATCTCAAAGGCAAGCTCATTTTGGGGGAGAAAGCAAGTGCTGGGCTCCTGGGTGCCACGCAGCTGCCAT
CACGGCCTATGCCCTGACACTGACCAAGGCCCCGCGGACCTGCGGGGTGTTGCCACAACAACCTCATGGCAAT
GGCCCCAGGAGACTGGAGATAACCTGTACTGGGGCTCAGTCACTGGTTCTCAGAGCAATGCCGTGTCGCCACCCCC
GGCTCCTCGCAACCCATCCGACCCCATGCCCCAGGCCCCAGCCCTGTGGATTGAAACCACAGCCTACGCCCTGCT
GCACCTCCTGATTACGAGGGCAAAGCAGAGATGGCAGACCAGGCTGCGGCCTGGCTCACCCTGTCAGGGCAGCTT
CCAAGGGGGATTCCGCGAGTACCCAAGACACGGTGATTGCCCTGGATGCCCTGTCTGCCCTACTGGATTGCCCTCCA
CACCCTGAGGAGAGGGGTCTCAATGTGACTCTCAGCTCCACAGGCCGAATGGGTTCAAGTCCCACGCGTGCA
GCTGAACAACCGCCAGATTTCGCGGCTGGAGGAGGCTGCAAGTTTCTTGGGCGAGCAAGATCAATGTGAAGGT
GGGAGGAAACAGCAAAGGAACCTGAAGGTCCTTCGTACCTACAATGTCCTGGACATGAAGAACACGACCTGCCA
GGACCTACAGATAGAAGTGACAGTCAAAGGCCACGTCGAGTACACGATGGAAGCAAACGAGGACTATGAGGACTA
TGAGTACGATGAGCTTCCAGCCAAGGATGACCCAGATGCCCTCTGCAGCCCGTGACACCCCTGCAGCTGTTTGA
GGGTGCGAGGAACCGCCGAGGAGGGAGGCGCCCAAGGTGGTGGAGGAGCAGGAGTCCAGGGTGCACTACACCGT
GTGCATCTGGCGGAACGCAAGGTGGGGCTGTCTGGCATGGCCATCGCGGACGTCACCTCCTGAGTGGATTCCA
CGCCCTGCGTGCTGACCTGGAGAAGCTGACCTCCCTCTCTGACCGTTACGTGAGTCACTTTGAGACCGAGGGGCC
CCACGTCTGCTGTATTTTACTCGGTCCCCACCTCCCGGAGTGCGTGGGCTTTGAGGCTGTGCAGGAAGTGCC
GGTGGGGCTGGTGCAGCCGGCCAGCGCAACCCCTGTACGACTACTACAACCCCGAGCGCAGATGTTCTGTGTTTTA
CGGGGCACCAAGTAAGAGCAGACTCTTGGCCACCTTGTGTTCTGCTGAAGTCTGCCAGTGTGCTGAGGGGAAGTG
CCCTCGCCAGCGTCGCGCCCTGGAGCGGGGTCTGCAGGACGAGGATGGCTACAGGATGAAGTTTGCCTGCTACTA
CCCCGTGTGGAGTACGGCTTCCAGGTTAAGGTTCTCCGAGAAGACAGCAGAGCTGCTTTCCGCCTCTTTGAGAC
CAAGATCACCCAAGTCTGCACTTCACCAAGGATGTCAAGGCCGCTGCTAATCAGATGCGCAACTTCTGTTTCG
AGCCTCCTGCCGCTTCGCTTGGAACTGGGAAAGAATATTTGATCATGGGTCTGGATGGGGCCACCTATGACCT
CGAGGGACACCCCCAGTACCTGCTGGACTCGAATAGCTGGATCGAGGAGATGCCCTCTGAACGCCTGTGCCGGAG
CACCCGCCAGCGGGCAGCCTGTGCCAGCTCAACGACTTCTCCAGGAGTATGGCACTCAGGGGTGCCAGGTGTG
AGGGCTGCCCTCCCACCTCCGCTGGGAGGAACCTGAACCTGGGAACCATGAAGCTGGAAGCACTGCTGTGTCCGC
TTTCATGAACACAGCCTGGGACCAGGGCATATTAAGGCTTTTGGCAGCA

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FIGURE 2148

ATTCTTGTCTGTTCTGCCTCACTCCCGAGCTCTACTGACTCCCAACAGAGCGCCCAAGAAGAAAATGGCCATAAG
TGGAGTCCCTGTGCTAGGATTTTTTCATCATAGCTGTGCTGATGAGCGCTCAGGAATCATGGGCTATCAAAGAAGA
ACATGTGATCATCCAGGCCGAGTTCTATCTGAATCCTGACCAATCAGGCGAGTTTATGTTTGACTTTGATGGTGA
TGAGATTTTCCATGTGGATATGGCAAAGAAGGAGACGGTCTGGCGGCTTGAAGAATTGGGACGATTTGCCAGCTT
TGAGGCTCAAGGTGCATTGGCCAACATAGCTGTGGACAAAGCCAACCTGGAAATCATGACAAAGCGCTCCAACCTA
TACTCCGATCACCAATGTACCTCCAGAGGTAAGTGTGCTCAGAACAGCCCTGTGGAAGTGAAGAGAGCCCAACGT
CCTCATCTGTTTCATAGACAAGTTCACCCCAACAGTGGTCAATGTCACGTGGCTTCGAAATGGAAAACCTGTCAC
CACAGGAGTGTGAGAGACAGTCTTCTGCCCAGGGAAGACCACCTTTTCCGCAAGTTCCACTATCTCCCCTTCCT
GCCCTCAACTGAGGACGTTTACGACTGCAGGGTGGAGCACTGGGGCTTGGATGAGCCTCTTCTCAAGCACTGGGA
GTTTGATGCTCCAAGCCCTCTCCCAGAGACTACAGAGAACGTGGTGTGTGCCCTGGGCCTGACTGTGGGTCTGGT
GGGCATCATTATTGGGACCATCTTCATCATCAAGGGATTGCGCAAAAGCAATGCAGCAGAACGCAGGGGGCCTCT
GTAAGGCACATGGAGGTGATGGTGTCTTCTAGAGAGAAGATCACTGAAGAACTTCTGCTTTAATGGCTTTACAA
AGCTGGCAATATTACAATCCTTGACCTCAGTGAAAGCAGTCATCTTCAGCATTTTCCAGCCCTATAGCCACCCCA
AGAGTGGTTATGCTCCTCGATTGCTCCATACTCTAACATCTAGCTGGCTTCCCTGTCTATTGCCTTTTCCTGTA
TCTATTTTCCTCTATTTCCCTATCATTATATTATCACCATGCAATGCCTCTGGAATAAAACATACAGGAGTCTGTC
TCTGCTATGGAATGCCCCATGGGGCATCTCTTGTGTACTTATTGTTTAAGGTTTCCTCAAAGTGTGATTTTCTG
AACACAATAAACTATTTTGAAGATCTTGGGTGGAA

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FIGURE 2149

MAISGVPVLGFFIIAVLMSAQESWAIKEEHVIIQAEFYLNPDQSGEFMFDFDGDEIFHVDMAKKETVWRLEEFGR
FASFEAQGALANIAVDKANLEIMTKRSNYTPITNVPPEVTVLTNSPVELREPNVLICFIDKFTPPVVNVTWLRNG
KPVTTGVSETVFLPREDHLFRKFHYLPFLPSTEDVYDCRVEHWGLDEPLLKHWEFDAPSPLPETTENVVCALGLT
VGLVGIIIGTIFIIGLRKSNAEERRGPL

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FIGURE 2150

ATGAAGGCCAACTACAGCGCAGAGGAGCGCTTTCTCCTGCTGGGTTTCTCCGACTGGCCTTCCCTGCAGCCGGTC
CTCTTCGCCCTTGTCTCCTGTGCTACCTCCTGACCTTGACGGGCAACTCGGCGCTGGTGTGCTGGCGGTGCGC
GACCCGCGCCTGCACACGCCCATGTACTACTTCTCTGCCACCTGGCCTTGGTAGACGCGGGCTTCACTACTAGC
GTGGTGCCGCGCTGCTGGCCAACCTGCGCGGACCAGCGCTCTGGCTGCCGCGCAGCCACTGCACGGCCCAGCTG
TGCGCATCGCTGGCTCTGGGTTCCGCCGAATGCGTCCTCCTGGCGGTGATGGCTCTGGACCGCGCGGCCGAGTG
TGCCGCCCGCTGCGCTATGCGGGGCTCGTCTCCCGCGCCTATGTCGCACGCTGGCCAGCGCCTCCTGGCTAAGC
GGCCTCACCAACTCGGTTGCGCAAACCGCGCTCCTGGCTGAGCGGCCGCTGTGCGCGCCCCGCTGCTGGACCAC
TTCATCTGTGAGCTGCCGGCGTTGCTCAAGCTGGCCTGCGGAGGCGACGGAGACACTACCGAGAACCAGATGTTT
GCCGCCCGCTGGTCATCCTGCTGCTGCCGTTTGCCGTCATCCTGGCCTCCTACGGTGCCGTGGCCCCGAGCTGTC
TGTTGCATGCGGTTACGCGGAGGCCGGAGGAGGGCGGTGGGCACGTGTGGGTCCACCTGACAGCCGTCTGCCTG
TTCTACGGCTCGGCCATCTACACCTACCTGCAGCCCGCGCAGCGCTACAACCAGGCACGGGGCAAGTTCGTATCG
CTCTTCTACACCGTGGTCACACCTGCTCTCAACCCGCTCATCTACACCCTCAGGAATAAGAAAGTGAAGGGGGCA
GCGAGGAGGCTGCTGCGGAGTCTGGGGAGAGGCCAGGCTGGGCAGTGA

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FIGURE 2151

MEGTQEYDSSMQTVRFQGERRKSPSNATFSPFFWMPHSAKSLVADAGIHSRNQHSYAIASF IKYSQLHFKSRESR
AGARDQPIIWKLKANYSAEERFLLLGFSWPSLQPVLFFALVLLCYLLTLTGNSALVLLAVRDPRLHTPMYYFLCH
LALVDAGFTTSVVPPLLANLRGPALWLPRSHCTAQLCASLALGSAECVLLAVMALDRAAAVCRPLRYAGLVSPRL
CRTLASASWLSGLTNSVAQTALLAERPLCAPRLLDHFICELPALLKLACGGDGDTTENQMFAARVVILLPLFAVI
LASYGAVARAVCCMRFSGGRRRAVGTCGSHLTAVCLFYGSAIYTYLQPAQRYNQARGKFVSLFYTVVTPALNPLI
YTLRNKKVKGAARRLLRSLGRGQAGQ

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FIGURE 2152

GAGAGCACGACGTGCGCGCACCCCTCTCCCCTTGTCCTGCTGCCGCTCCTTCTTCTGCCGCTCCTGGTGCTGC
TTGTGTGCTCGTTTGGAGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGCTCGCCATG
GCCGAAGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGAT
GGTTCTGTGGTGACAGTTTAAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGACAG
GGATTGTCAATGAGGCAGATCAGATTCCGATTGACGGGCAACCAATGAAACAGACACACCTGCACAGTTGGAAA
TGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTT
ACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTCAATTTGCTTCCACCACATCC
TGACTACTACCGTATAGTTTTCTCTATTCTTTTCAATTTCCCCCTTCCCCATTCTTTTACTGTACATAAAGTAACTG
GTATATGTGCAACAAGCATATTACTTTTTTTTTTAACTAAACAGCCAATGGTATGTTTGTATTGACATCAAGT
GGAGACGGGGCGGAAAAATACTGATTCTGTGAAAATACCCCTTTCTCCATTAGTGGCATGCTCATTGAGCTCTT
ATCTTTATATTCCAGTAAGTTATTTTGCTCTCACTGTTTAAACAACAACAACAAAAACAACAACATAAAAAATC
CTTGACATACCTTGTTCAATTGGAGAATTTAATGTTTTTCAATTTATCATTGTAAACCAAGGACAATTTATAAC
TTTTTTGTAAGTCTGTTACATGCAGAGCAATCTGTCTTTAAGTAGGGATAAATTACTCTAAAACAAAAAAGAA
TCCTAGATAGTTTTCCCTTCAAGTCAAGCGTCTTGTGTTTAAATAAACTTCTTGTTTAAAA

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FIGURE 2153

MAEEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFREDGQPMKQTHLHSW
KWRMKIQLMCSNSRREVSTEGTCFFTPELCSLTKITFSIRKLQFASTTS

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FIGURE 2154

GCGCACCCCTCTCCCCTTGTCCACTGCTGCCGCCTCCTTCTTCTGCCGCTCCTGGTGCTGCTTGTGTGCTCGTTTG
GAGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGCTCGCCATGGCCGAAGAAAAGCCC
AAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGATGGTTCTGTGGTGCAG
TTTAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGACAGTGGAATGGAGGATG
AAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTTACTCCAGAA
CTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTGAATTTGCTTCCACCACATCCTGACTACTA
CCGTATAGTTTCTCTATTCTTTCATTTCCCCCTTCCCATTCTTTACTGTACATA

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FIGURE 2155

AGACGCCGAGATGCTGGTCATGGCGCCCCGAACCGTCCTCCTGCTGCTCTCGGCGGCCCTGGCCCTGACCGAGAC
CTGGGCGGGCTCCCCTCCATGAGGTATTTCTACACCTCCGTGTCCCGGCCCGCGCGGGAGCCCCGCTTCAT
CTCAGTGGGCTACGTGGACGACACCCAGTTCGTGAGGTTTCGACAGCGACGCCGCGAGTCCGAGAGAGGAGCCGCG
GGCGCCGTGGATAGAGCAGGAGGGGCGCGAGTATTGGGACCGGAACACACAGATCTACAAGGCCAGGCACAGAC
TGACCGAGAGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGCCGGGTCTCACACCCTCCAGAGCAT
GTACGGCTGCGACGTGGGGCGGACGGGCGCCTCCTCCGCGGGCATGACCAGTACGCCTACGACGGCAAGGATTA
CATCGCCCTGAACGAGGACCTGCGCTCCTGGACCGCCGCGGACACGGCGGCTCAGATCACCCAGCGCAAGTGGGA
GGCGGGCCCGTGAGGCGGAGCAGCGGAGAGCCTACCTGGAGGGCGAGTGCGTGAGTGGCTCCGCAGATACCTGGA
GAACGGGAAGGACAAGCTGGAGCGCGCTGACCCCCAAAGACACACGTGACCCACCACCCCATCTCTGACCATGA
GGCCACCCTGAGGTGCTGGGCCCTGGGTTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGCGAGGA
CCAAACTCAGGACACTGAGCTTGTGGAGACCAGACCAGCAGGAGATAGAACCTTCCAGAAGTGGGCAGCTGTGGT
GGTGCCTTCTGGAGAAGAGCAGAGATACACATGCCATGTACAGCATGAGGGGCTGCCGAAGCCCCCTCACCTGAG
ATGGGAGCCGTCTTCCCAGTCCACCGTCCCCATCGTGGGCATTGTTGCTGGCCTGGCTGTCTTAGCAGTTGTGGT
CATCGGAGCTGTGGTCGCTGCTGTGATGTGTAGGAGGAAGAGTTCAGGTGGAAAAGGAGGGAGCTACTCTCAGGC
TGCGTGCAGCGACAGTGCCCAGGGCTCTGATGTGTCTCTCACAGCTTGAAAAGCCTGAGACAGCTGTCTTGTGAG
GGACTGAGATGCAGGATTTCTTCACGCCTCCCCTTTGTGACTTCAAGAGCCTCTGGCATCTCTTTCTGCAAAGGC
ACCTGAATGTGTCTGCGTCCCTGTTAGCATAATGTGAGGAGGTGGAGAGACAGCCACCCTTGTGTCCACTGTGA
CCCCTGTTTCGCATGCTGACCTGTGTTTCTCCCCA .

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FIGURE 2156

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFYTSVSRPGRGEPRFISVGIVDDTQFVRFDSDAASPREEPRAPW
IEQEGPEYWDRNTQIYKAQAQTDRESLRNLRGYYNQSEAGSHTLQSMYGCDVGPDGRLLRGHDQYAYDGKDYIAL
NEDLRSWTAADTAAQITQRKWEAAREAEQRRAYLEGECEVWLRRYLENGKDKLERADPPKTHVTHHPISDHEATL
RCWALGFYPAEITLTWQRDGEDQTQDTELVETRPAGDRTFQKWAAVVVP SGEEQRYTCHVQHEGLPKPLTLRWE
SSQSTVPIVGIVAGLAVLAVVIGAVVAVMCRRKSSGGKGGSYSQAACSDSAQGS DVSLTA

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FIGURE 2157

GGCGCCCCGAACCGTCCTCCTGCTGCTCTCGGCGGCCCTGGCCCTGACCGAGACCTGGGCGCCCCAGGCTCCCA
CTCCATGAGGTATTTGACACCGCCATGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCATCTCAGTGGGCTACGT
GGACGACACGCAGTTCGTGAGGTTGACAGCGACGCCGCGAGTCCGAGAGAGGAGCCGCGGGCGCCGTGGATAGA
GCAGGAGGGGCGGGAGTATTGGGACCGGAACACACAGATCTTCAAGACCAACACACAGACTGACCGAGAGAGCCT
GCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGCCGGGTCTCACACCCTCCAGAGCATGTACGGCTGCGACGT
GGGGCCGGACGGGCGCCTCCTCCGCGGGCATAACCAGTACGCCTACGACGGCAAGGATTACATCGCCCTGAACGA
GGACCTGCGCTCCTGGACCGCGGCGGACACCGCGGCTCAGATCACCCAGCGCAAGTGGGAGGCGGCCGTGTGGC
GGAGCAGGACAGAGCCTACCTGGAGGGCAGTGCGTGGAGTGGCTCCGCAGATACCTGGAGAACGGGAAGGACAC
GCTGGAGCGCGCGGACCCCCAAAGACACACGTGACCCACCACCCCATCTCTGACCATGAGGCCACCCTGAGGTG
CTGGGCGCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGCGAGGACCAAACTCAGGACAC
TGAGCTTGTGGAGACCAGACCAGCAGGAGATAGAACCTTCCAGAAGTGGGCAGCTGTGGTGGTGCCTTCTGGAGA
AGAGCAGAGATACACATGCCATGTACAGCATGAGGGGCTGCCGAAGCCCCCTACCCTGAGATGGGAGCCGTCTTC
CCAGTCCACCGTCCCCATCGTGGGCATTGTTGCTGGCCTGGCTGTCTTAGCAGTTGTGGTTCATCGGAGCTGTGGT
CGCTGCTGTGATGTGTAGGAGGAAGAGCTCAGGTGGAAAAGGAGGGAGCTACTCTCAGGCTGCGTGCAGCGACAG
TGCCCAGGGCTCTGATGTGTCTCTCACAGCTTGAAAAGCCTGAGACAGCTGTCTTGTGAGGGACTGAGATGCAGG
ATTTCTTCACGCCTCCCCCTTGTGACTTCAAGAGCCTCTGGCATCTCTTTCTGCAAAGGCACCTGAATGTGTCTG
CGTCCCTGTAGCATAATGTGAGGAGGTGGAGAGACAGCCACCCTTGTGTCCACTGTGACCCCTGTTCCCATGC
TGACCTGTGTTTCTCCCCAGTCATCTTCTTGTTCAGAGAGGTGGGGCTGGATGTCTCCATCTCTGTCTCAAC
TTTACGTGCACTGAGCTGCAACTTCTTACTTCCCTACTGAAAATAAGAACTGAAATATAAATTTGTTTCTCAAA
TATTTGCTATGAGAGGTTGATGGATTAATTAAATAAGTCAATTCCTGGAATTTGAGAGAGCAAATAAAGACCTGA
GA

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FIGURE 2158

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFDTAMSRPGRGEPRFISVGIVDDTQFVRFSDAASPREEPRAPW
IEQEGPEYWDRNTQIFKTNTQTDRESLRNLRGYYNQSEAGSHTLQSMYGCDVGPDGRLLRGHNQYAYDGKDYIAL
NEDLRSWTAADTAAQITQRKWEARVAEQDRAYLEGTCVEWLRRYLENGKDTLERADPPKTHVTHHPISDHEATL
RCWALGFYPAEITLTWQRDGEDQTQDTELVEVTRPAGDRTFQKWAAVVVP SGEEQRYTCHVQHEGLPKPLTLRWEF
SSQSTVPIVGIVAGLAVLAVVIGAVVAAVMCRRKSSGGKGGSYSQAACSDSAQGS DVSLTA

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FIGURE 2159

CCGAGCTTCTTAAACACAGGCCTTGGGCCTACGGCTCTGGGGGTACTTGGGGGGCGGGGGCAGGTCTGATGAGT
AACCCCTCCCCCAGGTTCCAGAGGAAGAAGCCTCCACATCTGTCTGCCGGCCCAAGAGTTCCATGGCCTCCACT
TCCCGCCGCCAACGCCGAGAACGTCGCTTTTCGTCTGTTACTTGTCTGCAGGACGGCTGGTCCGGGGCCAGGCCCTC
CTCCAGCGACACCCAGGCCTCGATGTAGATGCTGGGCAGCCCCACCCTGCACCGGGCCTGTGCCCCGCCACGAT
GCCCCTGCCCTGTGCTGCTGCTTCGGCTCGGGGCTGACCCTGCCCCACCAGGACCGCCATGGGGACACGGCACTG
CATGCTGCTGCCCCGCCAGGGCCCAGATGCCTACACCGATTTCTTCCTCCCGCTGCTAAGCCGCTGTCCCTCCGCC
ATGGGAATAAAGAATAAGGATGGGGAGACCCCTGGCCAAATTTTGGGCTGGGGACCCCTGGGATTCTGCTGAA
GAGGAGGAAGAAGATGATGCCTCCAAGGAGCGGGAATGGAGACAGAAGCTCCAGGGTGAGCTGGAGGACGAGTGG
CAGGAAGTCATGGGGAGGTTTGAAGGTGATGCCTCCCATGAAACCCAGGAACCTGAGTCCTTCTCAGCCTGGTCA
GATCGCCTGGCCCGGGAACATGCCCAGAAGTGCCAGCAGCAGCAGCGAGAAGCAGAGGGATCCCGTCGACCCCCA
CGTGCTGAGGGCTCCAGCCAGAGCTGGCGACAGCAGGAGGAGGAGCAGCGGCTCTTCAGGGAGCGAGCCCGGGCC
AAGGAGGAAGAGCTGCGTGAGAGCCGAGCCAGGAGGGCGCAGGAGGCTCTAGGGGACCGAGAACCCAAGCCAACC
AGGGCCGGGGCCAGGGAAGAGCACCCAGAGGAGCGGGGAGGGGCAGCCTCTGGCGATTGGTGATGTGCCCTGG
CCCTGCCCTGGGGGAGGGGACCCAGAGGCCATGGCTGCAGCCCTGGTGGCCAGGGGCCCCCTTTGGAGGAACAG
GGGGCTCTGAGGAGGTACTTGAGGGTCCAGCAGGTCCGCTGGCACCCCTGACCGCTTCTGCAGCGATTCCGAAGC
CAGATTGAGACCTGGGAGCTGGGCCGTGTGATGGGAGCAGTGACAGCCCTTTCTCAGGCCCTGAATCGCCATGCA
GAGGCCCTCAAGTGACCCTAGGGAAGAAGCAAGAACTTCGGGGCTGCAGCCTCAGGATGAGGCAGAAGGAAGGG
TAAGGGAAAGGATGGGGACCACAAGGAAGAGCCAGGTGCTGCTCAGCAGAGGATATGGGTGGGAGCGAAAGTTGT
AACAAGTGGGGGTGGGGGTGCGGGCCGCCACCACTGCTCCTTGACTCTGCCGTTTCCTAATAAGACCTGGTTCC
ACATCTC

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FIGURE 2160

TCTAATACCTATTGATCTGTTACTTTCTCCCATCACGCTCAGGTGGGAACATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCCACTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCTCAATGGCCTATTAGGCCCATACCCTACGTCAC
GGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTTGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCTCCAGGCCCAGCCTCTGCCTCCCGT
CAGCCTCTACAGTCCCAACGTCTGCCTCACAGCAGATTCTTCACGCCCAGCTTCTACCTCACTTGGACCCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCCAGCTCCT
CCTGCCTCCCAGTGGCCTCTTTCGGCCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCAGCCTCTGC
CTCACAGCGGACTCTC

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FIGURE 2161

TGAGGGAGTGAGGGAAGCTTCCTCTGTATTTACAGCCACTCCCCTTTGCTCACATTCCCGCCTGAGCTCCACCTT
CTCAGATGAGCAGCAGCATTAGATGCTCATAGGAGAACGCACCCTGTTGTGAACCATGCATGTGAGGGATCTAGG
TTGCGCTGTCCTTATGAGAGTCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGAACATCCA
GTTGCAGGAAAACAAGCTTAACACGCCCCACTGATTCTACATTATGCTCCTACCTCCCGGCAGCCTCTCCAGGCCC
AGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCAAAATGGCCTATTTAGGCCCATACCCTACGTC
ACGGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTC
TTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACATTCTCAGGTCTCCCTCTGTTGTCCAAGG
CTGGAGTGTAGTAGTGCTATCGCAGCTGACTGCAGCCTCAACCTTCCAGGCTGAAGCGATCCTCCACGTCAACC
TCCACGTGGCTGAGACTACAGGTGCTTGCCACTATGCCCACTAATATTTGGAATTTTCATATACGTGGATTCC
AGAGGGGTGACAGCGAAACGTGGGAACATCCAGTTGCAGGAAAACAAGCTTAACACGCCCCACTGATTCTACATTA
TGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTC
TCAATGGCCTATTTAGGCCCATACCCTACGTCACGGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTC
CACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTC

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FIGURE 2162

MAYLGPYPTSRQPPQMRLLPHNSLHRHSSIVTMASLDPAPASQPSLQALNFLKLTSPGPAHASLQPLQAQLLHLG
GPSRPSLCLPSASTVPTSASQQILHAQLLPHLDPPDPDGVSLWHPQVKLLPFGSLSRPSSSCLPVASFQALMP
PGGLPKPRF

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FIGURE 2163

GGCACGAGGGCCGGAAGGCGGCGTCCGCGACGCAGCTGTTACGCTTAGGTGGGCGACGTGGGCGCAGGTGGGCG
CAGG**ATGG**CAAAACAGAAGAGAAAAGTTCTGAAGTGACAGAGAAAAAGAACAAAAGCTGAAGAAGGCGTCAGC
AGAGGGGCCACTGCTGGGCCCTGAGGCTGCACCAAGTGGCGAAGGAGCCGGCTCCAAGGGCGAAGCTGTGCTCAG
GCCCCGGGCTGGACGCAGAGCCAGAGCTGTCCCCAGAGGAGCAGAGGGTCTTGAAAGGAAGCTGAAAAAGGAACG
GAAGAAAGAGGAGAGGCAGCGTCTGCGGGAGGCAGGCCTTGTGGCCACGACCCGCCTGCCAGGCGCTCGGGGGC
CGAACTGGCCCTGGACTACCTCTGCAGATGGGCCCCAAAAGCACAAAGAACTGGAGGTTTCAGAAGACGAGGCAGAC
GTGGCTCCTGCTGCACATGTATGACAGTGACAAGGTTCCCGATGAGCACTTCTCCACCCTGCTGGCCTACCTGGA
GGGGCTGCAGGGCCGGGCCCCGAGAGCTGACGGTGCAGAAGGCGGAAGCCCTGATGCGGGAGCTGGATGAGGAGGG
CTCTGATCCCCCCTGCCGGGGAGGGCCAGCGCATCCGACAGGTGCTGCAGCTGCTCTCCT**AGT**GGGTTTCAGCG
CGGGGCGGGGCCGCTGCCAGTGCAGGGCTGCCTCAGACCACACAGGGTGCAGCTCCTCCGGCGGTGGGGGCCGG
GTTACACAGCAGGGCAGCGGCTGAGCAAGGGCTTTCAGCTCCTCCGGTGGTGGGGGCCGGGATCACCAGCACCAG
AGCCTCGCAAGGGCCCCCTTCCCTCCTCCAGACCCTCCTTGGCCGGTGACGGCTGTGACAGTGATGGCAGGTTTCAG
TGCCTTCAGCGCAGAGCGTGGATGCTCTGGAATCACCCGGACCCCTGGCCTTGGAGGGACCCTCCAGCCCCAGGA
ATCTGCTTTGGAGGGAAATGTCTATTTTCTACCGGGAATATTTTAGAGATTGGGGCATGCTGGCTCCTCCCGCC
AGCTGCAAACCTGCACCTTCCGCCTGATTCCCGATCCCCCTGCGTGGGCCGCATTCTGGTCCCCTGCCTGCGTC
CATCGAGGGGCCCTGGCTGTGGCCTGTTTTCCTTTGACCCACACAGCGTCATTGCGGGTCATGGGGAGCCCCCTGG
TGGGAGCTTGTGGAGTCGGATCACGTACCTGTGCAGAAACCGCCTCTGTGGCTGCATTTGAAATAAAACCCGACC
CAGCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2164

MAKQKRKVPEVTEKKNKKLKKASAEGPLLGPEAAPSGEGAGSKGEAVLRPGLDAEPELSPEEQRVLERKCLKKERK
KEERQRLREAGLVAQHPPARRSGAELALDYLCRWAQKHKNWRFQKTRQTWLLHMYDSKVPDEHFSTLLAYLEG
LQGRARELTVQKAEALMRELDEEGSDPPLPGRAQRIRQVLQLLS

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FIGURE 2165

GCGGCGCGCTGCAGGCGCGGGGAACACCAATGCGGGGTACTTGAAGCTGGTGTGTGTTTCCTTTTCAGCGTCAAG
GGTTCCACACTGTTGGGAGTCGCTGCAAGAATCGGACAGGCGCTGAGCACCTGTGGCTGACCCGACATCTCAGGG
ACCCATTTGTGAAGGCTGCGAAGGTGGAGAGTTACCGGTGTGGAAGCGCCTTCAAGCTCCTGGAGGTGAACGAGA
GGCACCAGATTCTGCGGCCCGGCCCTTCGGGTGTTAGACTGTGGGGCAGCTCCTGGGGCCTGGAGTCAGGTGGCGG
TGCAGAAGGTCAACGCCGACGGCACAGATCCCAGCTCTCCTGTTGGCTTCGTGCTTGGGGTAGATCTTCTTCACA
TATTCCTCCCTGGAAGGAGCAACTTTTCTGTGCCCTGCTGACGTGACTGACCCGAGAACCTCACAGAGAATCCTCG
AGGTGCTTCCTGGCAGGAGAGCAGATGTGATTCTGAGCGACATGGCGCCCAATGCCACAGGGTTCCGGGACCTCG
ATCATGACAGGCTCATCAGCCTGTGCCTGACCTTCTCAGCGTGACCCGAGACATCCTGCAACCTGGGGGGACAT
TCCTTTGTAAAACCTGGGCTGGAAGTCAAAGCCGTCGGTTACAGAGGAGACTGACAGAGGAATCCAGAATGTAA
GGATCATCAAACCTGAAGCCAGCAGGAAAGAGTCATCAGAAGTGTACTTCTTGGCCACACAGTACCACGGAAGGA
AGGGCACTGTGAAGCAGTCAAGGATTTCTTGTGCCATTTTCATAATGGTCATTAGCTCCTTTTAAGCTAGAAACGT
AGCCTGAGCTCCTGAAGAGTTCCTGGGAGATTTGAGCTGATTTTGGAGATGGAGCAGGACAAGTGGGGAGTCTCT
CTCTCTCTTTCTCTCTCTCTCTTTTTAACCAAAAAGAGATGACAAAATAAGTTCAGGGGCCATGGAAAATGAAA
AAGTCCGCTATATTGTGATTTGGGAAGAGAAAGTTATCAAGAGAAAGAGGTGAGGATGGAAGGATGGAGAAAAAC
AGACTGTGGGAAGGATCAGAAGGAATCCGCCGAGGCAGGGATGGGTGTGCCCATGTGTGCCCTTGACGGGACTTCA
TCTTATAGACTGTTAACTGTACACACAAACAGGCTTTCACCCCTGCTCTGAGAGCACACGCACAGATTTCC
AGTTCTTAGTGTGGCTGTTTAAAGTAGAAAATCTGGGGGCTGGGTGAGGCCACTCATGCCTGTAAACCCAGGGCT
TTAGAAGGCTGAGGCTGGGGGATTGCTTGAAGTCAGGAGTTCAAGACCAACCTGGGCAACATAGCAACACCCCCC
ATGTCTACAAAATGAAAAACCAAAAGCAAACCAAAAGAAAAATCTGAAATTTCCATCTGGGGATTAACTTCTG
TCTTTCTGGTGAACAATATAGCAATTCACGCATTCTTCAAGCAGCAAAAGTTCCCGGAACAATTAGGGAAGACGT
ATGGTCTGAATTTATCCAGGCAGTGGGTCTGCTTTGGTTTTTGCTGGAATTTATATCAGTGTCTGGGCTCCCAA
GAACATAAATGTAATTGCCAAAGCAAAAAA

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FIGURE 2166

MAGYLKLVCSFQRQGFHTVGSRCNRTGAEHLWLTRHLRDPFVKAAKVESYRCRSFAFKLLEVNERHQILRPGLR
VLDCGAAPGAWSQVAVQKVNAAGTDFSSPVGVFLGVDDLHIFPLEGATFLCPADVTDPRTSQRILEVLPGRRADV
ILSDMAPNATGFRDLHDRLISLCLTLLSVTPDILQPGGTFLCKTWAGSQSRRQLQRRLTEEFQNVRIIKPEASRK
ESSEVYFLATQYHGRKGTVKQ

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FIGURE 2167

CGGCGGCCGCGGAGCCCTGCGAGTAGGCAGCGTTGGGCCCATGCAGGACGCGGAGAACGTGGCGGTGCCCGAGGC
GGCCGAGGAGCGCGCCGAGCCCGGCCAGCAGCAGCCGGCCGCCGAGCCGCCGCCAGCCGAGGGGTGCTGCGGCC
CGCGGGGCCCCGCGCTCCGGAGGCCGCGGGGACCGAGGCCCTCCAGTGAGGAGGTGGGGATCGCGGAGGCCGGGCC
GGAGTCCGAGGTGAGGACCGAGCCGGCGGGCCGAGGCAGAGCGGCCCTCCGGCCCCGTCCGAGTCGCCCTCGCCGCC
GGCCGCCGAGGAGCTGCCCGGGTTCGATGCTGAGCCCCCTGTCCCGGCACAGGGCGAGGCCCCAGGAGAGCAGGC
TCGGGACGAGCGCTCCGACAGCCGGGCCAGGCGGTGTCCGAGGACGCGGGAGGAAACGAGGGCAGAGCGGCCGA
GGCCGAACCCCGGGCGCTGGAGAACGGCGACGCGGACGAGCCCTCCTTCAGCGACCCCGAGGACTTCGTGGACGA
CGTGAGCGAGGAAGAATTACTGGGAGATGTACTCAAAGATCGGCCCCAGGAAGCAGATGGAATCGATTCCGTGAT
TGTAAGTGACAATGTCCCTCAGGTGGGACCCGACCGACTTGAGAACTCAAAAATGTCATCCACAAGATCTTTTC
CAAGTTTGGGAAAATCACAAATGATTTTTATCCTGAAGAGGATGGGAAGACAAAAGGGTATATTTTCTGGAGTA
CGCGTCCCCCTGCCACGCTGTGGATGCTGTGAAGAACGCCGACGGCTACAAGCTTGACAAGCAGCACACATTCCG
GGTCAACCTCTTTACGGATTTTGACAAGTATATGACGATCAGTGACGAGTGGGATATTCCAGAGAAAACAGCCTTT
CAAAGACCTGGGGAACCTTACGTTACTGGCTTGAAGAGGCAGAATGCAGAGATCAGTACAGTGTGATTTTTGAGAG
TGGAGACCGCACTTCCATATTCTGGAATGACGTAAAAGACCTGTCTCAATTGAAGAAAGAGCGAGATGGACAGA
GACGTATGTGCGTTGGTCTCCTAAGGGCACCTACCTGGCTACCTTTTCATCAAAGAGGCATTGCTCTATGGGGGGG
AGAGAAATCAAGCAAATTCAGAGATTCAGCCACCAAGGGGTTAGCTTATTGACTTCTCACCTTGTGAAAGGTA
CCTGGTGACCTTTAGCCCCCTGATGGACACGCAGGATGACCTCAGGCCATAATCATCTGGGACATCCTTACGGG
GCACAAGAAGAGGGGTTTTCACTGTGAGAGCTCAGCCCATTGGCCTATTTTTAAGTGGAGCCATGATGGCAAATT
CTTTGCCAGAATGACCTGGATACGCTTAGCATCTATGAACTCCTTCTATGGGTCTTTTGGACAAGAAGAGTTT
GAAGATCTCTGGGATAAAAGACTTTTTCTGGTCTCCTGGTGGTAACATAATCGCCTTCTGGGTGCCTGAAGACAA
AGATATTCCAGCCAGGGTAACCTGATGCAGCTCCCTACCAGGCAAGAGATCCGAGTGAGGAACCTGTTCAATGT
GGTGGACTGCAAGCTCCATTGGCAGAAGAACGGAGACTACTTGTGTGTGAAAGTAGATAGGACTCCGAAAGGCAC
CCAGGGTGTGTGACAAATTTGAAATTTCCGAATGAGGGAGAAACAGGTACCTGTGGATGTGGTTCGAGATGAA
AGAAACCATCATAGCCTTTGCCTGGGAACCAAATGGAAGTAAGTTTGCTGTGCTGCACGGAGAGGCTCCGCGGAT
ATCTGTGTCTTTCTACCACGTCAAAAACAACGGGAAGATTGAACTCATCAAGATGTTTCGACAAGCAGCAGGCCGAA
CACCATCTTCTGGAGCCCCCAAGGACAGTTCGTGGTGTGGCGGGCCTGAGGAGTATGAACGGTGCCTTAGCGTT
TGTGGACACTTCGGACTGCACGGTCATGAACATCGCAGAGCACTACATGGCTTCCGACGTCGAATGGGATCCTAC
TGGGCGCTACGTCGTCACCTCTGTGTCTGGTGGAGCCATAAGGTGGACAACGCGTACTGGCTGTGGACTTTCCA
GGGACGCTCTGTCAGAAGAACAACAAGGACCGCTTCTGCCAGCTGCTGTGGCGGCCCGGCTCCACACTCCT
GAGCCAGGAACAGATCAAGCAAATTAAGGAGGATCTGAAGAAATACTCTAAGATCTTTGAACAGAAGGATCGTTT
GAGTCAGTCCAAAGCCTCAAAGGAATTGGTGGAGAGAAGGCGCACCATGATGGAAGATTTCCGGAAGTACCGGAA
AATGGCCCAGGAGCTCTATATGGAGCAGAAAAACGAGCGCTGGAGTTGCGAGGAGGGGTGGACACTGACGAGCT
GGACAGCAACGTGGAGCACTGGGAAGAGGAGACCATTGAGTTCTTCGTCAGTGAAGAAATCATTCCCCCTCGGGAA
TCAGGAGTGACCTGGAGCACTGTGCGCAGCCGTGTGTGCTGTGGAGCCGAGGCCGTCTGCAGGAAGCCGCGTGA
CTCCCGCCTCCTCCTGTGCTCTCTGGCTCTGGACTGTGACTGCGCCTGGATTCTGCCATTGCGACACATTTTTG
TGCCTTTCAGCCCTGCTGTCTGCACTGGGGGATTTAAGGCACCCGCTTCCACTTCTTTCTTGTGTTGGAGTTTC
TGTGGAACCGCCGCGTTGGCTCCGAAGACTTAGCGACGCCACTGGCGGCACCTTCTCCTGCGCCCAGTGATGT
TTCCAGGTGCTGTACACAGCCGAGCAGCATTTCCGTTGAAGGACTTGATCCCCATTGCGGGCAGTGCTGGAC
GTGTCCCGGAGACCCACGGGAGGGCGCCGCCATGCCTTGATCCCCACCGTGCAGGTTGTGGCCGGTTTTCTCC
GCAGGTTGAACATGGAATAAAAGCAAACCTGTATG

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FIGURE 2168

GTCGGAGCGACCGGCTTGGCGCCTGCCTGTCCCCAGCCCCCTCTCAGCTTGAACCTCCTTCCTTCAAGTCTGGGCCC
TCGAGGCTTCCAGAGCGGCCCTCCAGGGGTGCAGTCTCAGTTCCCCACGCCAGCCGTCTCCGTCTCCGCCCTCCTC
CGGGCCTGGCAGGTGGCACTGTCCGGAGGCGGAGCCTTGGGCGAGGGGTGGTTGCGGCGGAGGACGCAACCGAGC
GGGCTGCGGCCCTACCATGGACCCAGAATGCGCCCACTGTCTCCCGCTCTCTGTGCTGTTCTGGTAGATCCCA
GGCAGCCGGTGGCAGATGACACCTGTTTGGAGAAGCTCCTGGACTGGTTTAAAACGGTCACTGAAGGAGAGTCCA
GTGTCGTGCTGCTGCAGGAGCACCCCTGCCTGGTGGAGCTGCTGTCCC**ATGT**GCTGAAAGTCCAGGACCTGAGTT
CTGGGGTCTCTCCTTCTCACTGCGCCTGGCAGGAACCTTCGCAGCCCAGGAAAACCTGCTTCCAGTATCTTCAGG
TGCGGTGACACCATCTTCTCCCTGCAGGGAGACTCCAGCCTGTTTGTGGCCTCGGCGGCCAGTCAGCTCCTGGT
GCACGTCTGGCTTTGTCCATGCCAGGTGGAGCCGAGGGGCGAGCCCTGCCTGCCGGGGGGTGAAGTGGCCCGGTG
TGCCCAAGAATCATGGATCACGTTGAAGAGTCTTGTGCTCCGCGGCCACCCCAAGGTCACTCAGGCCCTGAA
CGTCTTGACCACGACCTTCGGGCGCTGCCAGAGCCCCTGGACGGAAGCCCTGTGGGTGCGGCTGAGTCCCCCGCT
GGCCTGTCTGCTGGAGAGAGACCCCATCCCCGCCGACACTCGTTCGTGGACCTGCTTCTCTGTGTGGCTCGTTC
TCCCGTGTTCAGTTCTTCCGACGGCAGCCTGTGGGAGACAGTGGCGGGGCTCTGAGCTGCCTGGGTCCCAACCA
CATGGGACCCCTGGCTTTGGGGATCCTGAAGCTCGAGCACTGTCCACAGGCACTGAGGACCCAGGCCCTTCCAGGT
CCTTCTCCAGCCCCTGGCCTGTGTCTGAAGGCCACGGTTCAGGCCCCCGGACCCCAAGGCTTGCTGGACGGGAC
GGCAGACGATGCCACGACGGTGGACACACTCTGGCCTCCAAGTCGTCTGCGCCGGCCTCCTGTGCCGACCCCT
GGCTCACCTGGAGGAGCTGCAGCCGCTGCCCCAGCGCCCTTACCCTGGCCCCAGGCGTCTCTACTGGGGGCTAC
AGTGACTGTCTGCGGCTCTGTGACGGCTCGGCTGCCCCCTGCCTCCAGTGTGGGGGGCCACCTCTGTGGGACCCCT
GGCGGGCTGCGTCCGGGTCCAGCGAGCAGCCCTCGACTTCTTGGGACGCTGTACAGGGGACAGGCCCCCAGGA
GCTGGTGACGACGGCGCTTGCTGTCTCTTGGAGTGCCTCGAGAGCCCCGGCTCCAGCCCCACGGTTCCTGAAGAA
GGCCTTCCAGGCCACGCTCAGGTGGCTCCTGAGCTCACCAAGACCCCCGGCTGCTCTGATCTCGGCCCCCTCAT
CCCCAGTTCTCAGAGAGCTGTTCCTGTGCTGCAGAAACGCTGTGCCACCCCTGCTGGGAGGTGAGGGACTC
CGCCCTCGAGTTCTTGACCAGCTGAGCAGGCACTGGGGAGGACAGGCTGACTTCAGATGCGCACTCTTGGCTTC
AGAGGTGCCTCAGCTGGCCCTGCAGCTCCTCCAGGACCCCTGAGAGTTATGTCCGAGCGAGTGCAGTGACCGCCAT
GGGGCAGCTGTCCAGCCAGGGCCTGCACGCCCCCACCAGCCCTGAGCATGCAGAGGCCCGGACAGACCTGTTCTCT
GGAGCTCCTGCACATCCTTCCGTAGACTCGGAGGGCTTCCCACGGCGGGCGGTATGCAAGTCTTCACTGAGTG
GCTGCGGGACGGCCACGCCGACGCGGCCAGGACACGGAGCAGTTCGTGGCCACTGTGCTGCAGGCGGCGAGCCG
AGACCTGGACTGGGAGGTCCGCGCCAGGGCCTGGAGCTGGCCCTCGTGTTCCTGGGCCAGACTTTGGGGCCGCC
GCGTACCCACTGCCCTATGCCGTGGCCGTACCCGAGGTGGCCCCAGCCCAGCCACTCACCGAGGCACTGAGGGC
TCTCTGCCACGTGGGGCTCTTTGACTTCGCCCTTTGTGCCTTGTGACTGCGACCGCCCTGTGGCGCAGAAGTC
TTGTGACCTCCTTCTCTTCTGAGGGACAAGATTGCTTCTTACAGCAGCTGCGGGAGGCCAGGGGACAGCCCCAA
CACTGCCCTCCGACAGAGGCCACCTTGCCGAGGTGGCGGGCGGGTGAGCAGGCCAGCCCCAGGGGACAGGAGCC
TGAGGCTGTGCTGGCCATGCTCAGGTCCCTAGACCTGGAGGGCTGCGGAGCACGCTGGCCGAGAGCAGGACCA
CGTGGAAGAGTCCCCAGTCCCTCCTGCAGGACATGCTGGCCACGGGAGGCTTCTGACAGGGGACGAGGCCGA
CTGCTACTGAGCAGAACCAGAGTCTGCCACTGGGGCTCAGGACCAAGGGAGGCAGCACCATTGCTTCTGTGGGA
CACTGCCAGCCCCAGGGCTCCAGCCAGCCCGGTGGATCCTCTGGGGAAGCCAGGACCAGGAGAGAAGCAAGGTC
AAGAAATCCCACAGTTTGATGTATTAAAGAAATGACTTATTTCTACTCAAAATAAATGGCATTGAAGTCTTTCTT
T

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FIGURE 2169

MRGGAEGQPCLPGGDWPACAQKIMDHVEESLCSAATPKVTQALNVLTTFGRCQSPWTEALWVRLSPRVACLLER
DPIPAAHSFVDLLLCVARSPVFSSSDGSLWETVARALSCLGPTHMGPLALGILKLEHCPQALRTQAFQVLLQPLA
CVLKATVQAPGPPGLLDGTADDATTVDTLASKSSCAGLLCRTLAHLEELQPLPQRPSWPQASLLGATVTVLRL
CDGSAAPASSVGGHLCGTLAGCVRVQRAALDFLGTLGQGTGPQELVTQALAVLLECLESPGSSPTVLKKAQATL
RWLLSSPKTPGCSDLGPLIPQFLRELFVVLQKRLCHPCWEVRDSALEFLTQLSRHWGGQADFRCALLASEVPQLA
LQLLQDPESYVRASAVTAMGQLSSQGLHAPTSPEHAERQSLFLELLHILSVDSSEGFPRAVMQVFTEWLRDGH
DAAQDTEQFVATVLQAASRDLDWEVRAQGLELALVFLGQTLGPPRTHCPYAVALEVAPAQPLTEALRALCHVGL
FDFAFCALFDCDRPVAQKSCDLLLFLRDKIASYSSLREARGSPNTASAEATLPRWRAGEQAQPPGDQEPQAVLAM
LRSLDLEGLRSTLAESSDHVEKSPQSLLDMLATGGFLQGDEADCY

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FIGURE 2170A

GGCGGCCGAGCGGAGCCGAGCGCAGCCGAGCCGGGCGGAGCCGGGCGGCGGCCAGGAGCGCGCGGATGAT
GCGGGCGGCCAGGCGGGGTCGACGGGTCCCTGAAGCCCGCGCCCCGGGCCAGCAAGGGAGCCCCGCGCAGGCCG
CGCGCATCCGGAGGCGGCGGCCCCGCCATGCGCGGGGTACGCTACGCGCGCCCTGGTGGGTGAGCCTCCTGC
ACCGGCTGCCCCACTTCGACCTGAGCTGGGAGGCCACTAGCAGCCAGTTCCGGCCGAGGACACCGACTACCAGC
AGGCCCTGCTGCTCCTGGGGGCGCGCCCTGGCCTGCCTCGCCCTGGACCTCCTCTTCTGCTCTTCTACTCCT
TCTGGCTGTGCTGCCGGCGCGCAAGAGCGAGGACCTGGACGCCGACTGCTGCTGCACGGCCTGGTGTGTCA
TCATGCCACGCTGGTGTGACGCGCGGCATCGCAGTGGGATTCTACGGCAACGGGGAGACCAGTGTATGGCATCC
ATAGGGCCACCTACTCGTCCGCCACGCCAACCGCACGGTGGCCGGGTCCAGGACCGCGTGTGGGACACGGCGG
TGGGGCTGAACCACACGGCGGAGCCAGCCTGCAGACCCTGGAGCGGCAGCTGGCCGGGCGGCCGAGCCCCCTGC
GAGCCGTACAGAGGCTGCAGGGCCTGCTGGAGACGCTGCTGGGCTACACGGCCGCCATCCCTTTTGGAGGAACA
CGGCGGTGTGCTGGAGGTGCTGGCGGAGCAGGTGGATCTCTACGACTGGTACAGGGTCTGCCTGCTGGGAGTCC
TGGCCCTGGTTCATCAGCTGGGGCGCGCTGGGCTTGGAGCTGGCTGTGTCCGTGGGCTCCAGCGACTTCTGTGTGG
ACCTTGACGCTACGTGACCAAAATGGTGGAGGAGTACTCGGTGCTGAGTGGGACATCCTGCAGTACTACCTGG
CCTGCTCGCCCCGCGCGCCAAACCCCTTCCAGCAGAAGCTGTCGGGCAGCCACAAGGCACTGGTGGAGATGCAGG
ATGTCGTGGCTGAGCTTCTGAGGACCGTCCCTGGGAGCAGCGGCCACTAAGGACCCCTCCTCCGCGTCCAGG
AGGTGCTGAATGGCACGGAGGTGAACCTGCAGCACCTACCGCCCTGGTGGACTGCCGACGCTGCATCTGGACT
ACGTGCAAGCGCTGACCGGCTTCTGCTATGACGGCGTGGAGGGCCTCATCTACCTGGCCCTCTTCTCCTTCGTCA
CAGCCCTCATGTTTCACTCCATCGTCTGCAGCGTCCCGCACACCTGGCAGCAAAAGAGAGGCCCTGATGAGGACG
GGGAGGAGGAGGCCCTCCAGGGCGCGCGCAGGCGCAGCAGCCTCTACCGCGTCCACATGCCAGCCTGTACA
GCTGTGGCAGCAGTACGGCAGTGAGACCAGCATCCCGCGCGGCCACACCGTCAGCAACGCCCGGTCACTG
AGTACATGAGCCAGAACGCTAATTTCCAGAACCCCGCTGTGAGAACACCCCACTCATTGGGCGCGAGTCCCGCG
CGCCCTCATACCTCCAGCATGAGAGCCAAATACCTCGCCACGAGCCAGCCTCGCCCTGACTCCAGCGGCAGCC
ACTAGACCGCGCCCGCAGCCACCCACCCACGTCGCAACTTCCCTCCCGTGCCAGCACTGCCGCTTCCACCT
GGGCCACCCACCGGACCTCGCACGCCGTGCCAGGCTGCCCGAGCAGCGTCTGCAGGCCGCTTGCCTCCTGTG
CCCTCCCGCAGGGGCACAGTGGAGACGCAGGGGCTCTGGGCCGTTACCGCCAACTCGGGTCACACCTGAACGCT
GCTGCCAGCCGATGCCCCAGCCCTGCACGCCACCCACTATCCCGGCACGCTCCCTCTGCAGATGGTCCCGCACC
TACAAGCCCTGGCCGACCCAACTGTGTTGTTGCCGCCCGGCCCTTCCCTCCACAGCTCTCCTTCTCCCGCCC
GGCACTTCTGTGAGCCCTTCTTAGTTACAGGCACGGCTGGGGCGGCTCTGTGCTGGCGCCTGCTGGCCACTGA
GGGACAGGGACAGTGGCACCTGCTCATCTCTGCCCTGAGGTACCCCGTGGTCCCTCCACGTGCCCATCTCTCT
GCAGTGCCCTCCTCGCCTGTGCAGCCCGCCACCCACAGGCTACCCCTCCTGCCGGCTGCCAGAGGCCCTCC
AGCAGGGCCTCTCTCGGTTGCCCGAGCTTCACTCTCTCCCTCAGCACCTGCCCTGCTGGAGGCCCGAGCCCTCCG
TGGACAGCAGGGGCCACGTGGAGCCCGGGCGCTCACCCGCCACCCAGTGTGGCCGCTTCTTGGTGCCAAACC
CCCTTCCCCACCCAGAGACTGGGCAGCTGTGTCTGGTTGCTTCTTGGACTAACCACATTTGTATCTCTAGGG
CAGGCTGGGGCTGCGGGCTGAGGGGACCGCTGGCACCCCTTCCCTCCCTTCTTGGTTCCATTTCCATCCATG
ACAGGTACAGCATCCCAGGAGCCCGGCTGAGGGGCTGACCCGAGCCGGCTGTGAACATCCCTCAGCCCTGCT
GTCCCCCTTGGGACTAACCCTAACCTCACCCCAAACTCCACGGGTGCCCTAGCTGGCCAGAGCCGGCAGT
GTGAGCCCAAGTCCGGGTGGAGCCGAGGCCGAGCAGCTGTCTGGGAGTCAAGGCTGCAGTAGCGTTTCTTCAT
GGGGTGTCTCAGGGGGTGCCACAGACCGACAGGCAGCCAAAGGGCCTGGACACCCCTCCCCAGGCAGGTGCTGCC
CCAGGAGGACTGTCTCGGAATGAACCTCCCGCGGGCTTTGGACTGAGGTCCCTGTGGCCTCGGTCTCCTCCCC
ATGAAGTGGGAGCGAGGCTCCCCAATGGTGTCTTTGGCTTTAGTGTACGATGTTTGTGTGCTTCCCGCGTGGA
GGGCAGAGCCACCCACATCAGGATCGGACGTGTACCCCTCCCGGTCCCGGCCCTGGCCAGCCAGCCAGCCC
TCGAGGCTCGATGCCTGTGCCAAGGCCAGGGGCGAGCCAGAGGGCAGCTGGATGGCCACGTGCAGGGGTCAAGGCT
GGGCCCTGCAGTGGGGCGGGCCGCGCCAGCCCGCAGGTTTACAGACGATGGCTCTTCTCCAGAGCAGCCGGCA
GCTACCTGGACCGGAAATGTCTCATCCCTCCCTGGGGCCAGGCTCTGCCCTGGCCTTCTCTGTGAACCCCTC
CTTTCTTGTGCTGGTGTCTGGGACCAAAAAGGGGAATATGGGAGGGCAGAGTGGGGAGGGGAGTCCATGGGCC
TGGGGCCCCAAGCCGGGGCGTCTGAGCTCCCCAGGCATGACCAACCTCAGTGGAGGGGCTCTGCTTACGGCCC
CGCTGGCTGACATTCTGAGCCCCCTCGGAGGCCCGCCACAGCCAACCTGCCAGTCTTCTCTGGGCTTGA
CCCGCCAGGGGAGTTCTCCAGGCCTAGGGCCAGGAGAGAGGCCCTGGCACCTGGCGTGGGTGCCCGCCAAACGC

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FIGURE 2170B

CCTGCGACCGCTCAGAAGCACAAATGCTGTCCATGGCCGTGAGGCTGCCTGCCAGGTGAATGGACATAGCGTGAG
AGGCGGTGAGGCCAGGGCTTCCAGCCTCGTGCTGTCTCGGGACTCCTGACCGTGGTGTGCGTGTGTGCCCGTCTG
TGACTTTCTACTCACCAAGGTTGAAGAAAGGAAACGGGGAAAATCAAAAGGGGTTCAAACCCACCTCAGTAGGT
GGAGGGGAGCGCCTGCCATTGGTTGTATTTTGTCTGAGTTTTCGGTGCCGTGTTCTTAATACTACTCCATCCCAT
GACCTCGCCACACCTACTGGGGCATCTGGCTGGTGCCTGCTGCCATGGCCAGCCCCACTCTCACCCCTGCACAGG
GGGTCTTGACAGCCCCAGGCCACAGCCTCGTTGGGAGGACAGGGTGGCCCTGGGGACAAGAGGGAGGAGCCCAG
GGGCTTACCTCACTGAGAGTGCTCCCCAGCAGGCATCCACTACCCAGGGCCCCCACATGTCATGGCAAGGTTG
GTAGTGAATGGGCCTGGTTGGGAGCAGCCCTGGCCCAATTGCCACCCACCCATCTCACTAIGCAATTCGAGTTC
CAAGCAACATTTGCTCCTGCCCTGGGGCCAGCTCTGCCCCAGCCCTGAGAGGGGTGGTGAGGCAGCCCCCTGGAC
CCCAGAACCCAGACAAGGGGGCAGGCGGGGGACCAGGGCCTCTCCTGTGGGATCTTTGTTTTGTGTTTAACCAT
AATGGTTGTGTACTGAACCACTTCATATTTGTTATATATAATATATATATATAATCTCCTTAAGACTCAGCCT
CCTGGTTTACCCCCCGCCTGGGCATCTGACCTCCCCACCCAGTGTGATTAAACATCCAGGAAGTGAAGGCCT
GAACCATTTTGATTTCCCCCTCCTCCAGCCTCTGTAGGGCCATGGCTGTATGTACTGTGCTGTGTTTTTTTGT
TTTTTTAGAACTGGGTTTGGGGGCTGATTTTATTTCTTTGGGGGCTTTTTTCTTGGCAAATACTAAAAATCTC
GTCAATGTAATTTCTGTGGTTTCTATTAGCTTGGGTTTCATGTTTTAAATAAAATTTTAAAAAGC

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FIGURE 2171

MAGVSYAAPWWVSLHRLPHFDLSWEATSSQFRPEDTDYQQALLLLGAAALACLALDLLFLLFYFWLCCRRRKS
EEHLDADCCCTAWCVIIATLVCSAGIAVGFIYNGETSDGIHRATYSLRHANRTVAGVQDRVWDTAVGLNHTAEPS
LQTLERQLAGRPEPLRAVQRLQGLLETLLGYTAAIPFWRNTAVSLEVLAEQVDLYDWYRVCLLGVLALVISWGAL
GLELAVSVGSSDFCVDPPDAYVTMVEEYSVLSGDILQYYLACSPRAANPFQKLSGSHKALVEMQDVVAELLRTV
PWEQPATKDPLL RVQEVNLNGTEVNLQHLTALVDCRSLHLDYVQALTGFCYDGVGLIYLALESFVTALMFSSIVC
SVPHTWQQKRGPDDEGEEAAGPRQAHDLSLYRVHMPSLYSCGSSYGSETSIPAAAHTVSNAPVTEYMSQNANFQ
NPRCENTPLIGRESPPPSYTSSMRAYLATSQPRPDSSGSH

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FIGURE 2172

ACAGAACAGAGAGAAAGGAACCTTTGTCTTTTCGTGTGAATGCTCGTGAGGGGCCATCCTTAGAGTGGAATGCTC
CTGAGGCTCCAGCGAATCAAGACCTCAGACCCCCGGGCTGTCCCCACCCCATGACCACATGTTCCGCAGGCACC
CTCAGCGCTGTGCCCTGCGTGTGCGCCAGGCAGGTGTTTGTGTTTGTGAGCGCAGATTCTGCCTGTGGCATAGCCAT
GTGGAGATGTTACGCATGTACTTCCCTTTGTGATTTAGCCGATACGGAAGATGTGTGCATTGTAGAGAGATTG
TTCTCCAGCAGCCTAGTGGCCATCGTGAGCCTTAAAGCACCAGGAAGCTAAAGGTTTGCCACTTTAAGAAGGGA
ACTGAGATCTGCAACTACAGCTACTCCAACACGATTCTGGCTGTGAAGCTCAACAGGCAGAGGCTGATAGTATGC
CTGGAGGAGTCCCTGTACATCCACAACATTCTGGGACATGAAGGTGCTGCATACGATCAGGGAGACGCCTCCAAAC
CCTGCAGGCCTGTGTGCGCTGTCAATCAACAACGACAACCTGCTACTTGGCGTACCCAGGGAGCGCGACCATCGGA
GAGGTGCAGGTCTTCGATACCATTAATTTGAGAGCTGCAAACATGATTCCGGCTCACGACAGTCCTTTAGCGGCA
CTGGCCTTTGACGCAAGTGGAATAAATTGCCACGGCTTCGGAGAAGGGGACCGTGATTAGGGTATTTTCCATT
CCAGAAGGACAAAACTCTTTGAGTTTCGGAGAGGAGTAAAGAGGTGCGTGAGCATCTGCTCCCTGGCCTTCAGC
ATGGACGGCATGTTCTCTCCGCCTCCAGCAACACTGAGACCGTGACATCTTCAAACCTCGAGACTGTGAAAGAA
AAACCCCCAGAGGAGCCCACCACCTGGACCGGGTACTTCGGGAAAGTGCTCATGGCCTCCACCAGCTACCTGCCT
TCCCAAGTGACAGAAATGTTCAACCAGGGCAGAGCTTTCGCCACGGTCCGCCTGCCATTCTGCGGCCACAAAAAC
ATCTGCTCGCTAGCCACAATTCAGAAGATCCCGCGGTTGTTGGTGGGTGCCGCCGACGGGTACCTGTACATGTAC
AACCTGGACCCCCAGGAGGGCGGCGAGTGTGCCCTGATGAAGCAGCACCGGCTGGACGGCAGTCTGAAAACGACC
AATGAGATCTTGGACTCTGCCTCTCACGACTGCCCTTAGTCACTCAGACATACGGCGCAGCTGCAGGAAAAGCC
TACACAGACGACCTGGGTGCTGTGGGTGGCGCCTGCCTGGAGGACGAGGCCAGCGCCCTGCGCCTGGATGAGGAC
AGCGAGCACCCGCCCATGATTCTTCGGACTGACTGAACCTTGACCTGTGACCTCTGACCCGGGGAGCAGAGAACAC
TGGCTTCACAGAGGACTTTGTGCATTGCTGCTATGAACCTTGACCTGAGTCGGGGGAGAGGATGGCAGAGACTTT
ATT

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FIGURE 2173

MLLRQLRIKTLRPPGCPHPMTTCSAGTILSAVPCVSPRQVFVFERRFCLWHSVEMFTHVLPFVISADTEDVCIVE
RLFSSSLVAIVSLKAPRKLKVCHFCKGTEICNYSYSNTILAVKLNRLIVCLEESLYIHNIKMDKVLHTIRETP
PNPAGLCALSINNDNCYLAYPGSATIGEVQVFDITINLRAANMIPAHDSPLAALAFDASGKLTASEKGTIVIRVF
SIEGQKLFEFRGVKRCVSIKSLAFSMDGMFLSASSNTETVHIFKLETVKEKPPPEPTTWTGYFGKVLMASTSY
LPSQVTEMFNQGRAFATVRLPFCGHKNICSLATIQKIPRLLVGAADGYLYMYNLDPQEGGECALMKQHRDGLK
TTNEILDSASHDCPLVTQTYGAAAGKAYTDDLGAVGACLEDEASALRLDEDEHPPMILRTD

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FIGURE 2174

CGCGTCCGCCCCGCGAGCACAGAGCCTCGCCTTTGCCGATCCGCGCCCGTCCACACCCGCGCCAGCTCACCAT
GGATGATGATATCGCCGCGCTCGTCGTCGACAACGGCTCCGGCATGTGCAAGGCCGGCTTCGCGGGCGACGATGC
CCCCCGGGCCGTCTTCCCTCCATCGTGGGGCGCCCCAGGCACCAGGGCGTGATGGTGGGCATGGGTCAGAAGGA
TTCCTATGTGGGCGACGAGGCCCAGAGCAAGAGAGGCATCCTCACCCCTGAAGTACCCCATCGAGCACGGCATCGT
CACCAACTGGGACGACATGGAGAAAATCTGGCACCACACCTTCTACAATGAGCTGCGTGTGGCTCCCGAGGAGCA
CCCCGTGCTGCTGACCGAGGCCCCCTGAACCCCAAGGCCAACCGCGAGAAGATGACCCAGATCATGTTTGAGAC
CTTCAACACCCAGCCATGTACGTTGCTATCCAGGCTGTGCTATCCCTGTACGCCCTCTGGCCGTACCACTGGCAT
CGTGATGGACTCCGGTGACGGGGTCACCCACACTGTGCCATCTACGAGGGGTATGCCCTCCCCATGCCATCCT
GCGTCTGGACCTGGCTGGCCGGGACCTGACTGACTACCTCATGAAGATCCTCACCAGCGCGGGCTACAGCTTCAC
CACCACGGCCGAGCGGGAAATCGTGCGTGACATTAAGGAGAAGCTGTGCTACGTCGCCCTGGACTTCGAGCAAGA
GATGGCCACGGCTGCTTCCAGCTCCTCCCTGGAGAAGAGCTACGAGCTGCCTGACGGCCAGGTCATCACCATTGG
CAATGAGCGGTTCCGCTGCCCTGAGGCACTCTTCCAGCCTTCCTTCCTGGGCATGGAGTCCTGTGGCATCCACGA
AACTACCTTCAACTCCATCATGAAGTGTGACGTGGACATCCGCAAAGACCTGTACGCCAACACAGTGCCTGTCTGG
CGGCACCACCATGTACCCTGGCATTGCCGACAGGATGCAGAAGGAGATCACTGCCCTGGCACCCAGCACAAATGAA
GATCAAGATCATTGCTCCTCCTGAGCGCAAGTACTCCGTGTGGATCGGCGGCTCCATCCTGGCCTCGCTGTCCAC
CTTCCAGCAGATGTGGATCAGCAAGCAGGAGTATGACGAGTCCGGCCCCCTCCATCGTCCACCGCAAATGCTTCTA
GGCGGACTATGACTTAGTTGCGTTACACCCTTTCTTGACAAAACCTAACTTGCGCAGAAAACAAGATGAGATTGG
CATGGCTTTATTTGTTTTTTTTGTTTTGTTTTGGTTTTTTTTTTTTTTTGGCTTGACTCAGGATTTAAAACTG
GAACGGTGAAGGTGACAGCAGTCGGTTGGAGCGAGCATCCCCAAAGTTCACAATGTGGCCGAGGACTTTGATTG
CACATTGTTGTTTTTTTAAATAGTCATTCCAAATATGAGATGCATTGTTACAGGAAGTCCCTTGCCATCCTAAAAG
CCACCCCACTTCTCTCTAAGGAGAAATGGCCAGTCCTCTCCAAGTCCACACAGGGGAGGTGATAGCATTGCTTT
CGTGTAATATGTAATGCAAAATTTTTTAAATCTTCGCCTTAACTTTTTTATTTTGTGTTTTATTTTGAATGAT
GAGCCTTCGTGCCCCCCTTCCCCCTTTTTGTCCCCAACTTGAGATGTATGAAGGCTTTTGGTCTCCCTGGGAG
TGGGTGGAGGCAGCCAGGGCTTACCTGTACACTGACTTGAGACCAGTTGAATAAAAGTGCACACCTTA

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FIGURE 2175

MDDDIAALVVDNGSGMCKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKDSYVGDEAQSKRGILTLYPIEHGI
VTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYASGRITG
IVMDSGDGVHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYSFTTTAEREIVRDIKEKLCYVALDFEQ
EMATAASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFNSIMKCDVDIRKDLYANTVLS
GGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDESGPSIVHRKCF

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FIGURE 2176

GCGGAGGGTGCGTGCGGGCCGCGGCAGCCGAACAAAGGAGCAGGGGCGCCGCCGAGGGACCCGCCACCCACCTC
CCGGGGCCGCGCAGCGGCCTCTCGTCTACTGCCACCATGACCGCCAACGGCACAGCCGAGGCGGTGCAGATCCAG
TTCGGCCTCATCAACTGCGGCAACAAGTACCTGACGGCCGAGGCGTTTCGGGTTCAAGGTGAACGCGTCCGCCAGC
AGCCTGAAGAAGAAGCAGATCTGGACGCTGGAGCAGCCCCCTGACGAGGCGGGCAGCGCGGCCGTGTGCCTGCGC
AGCCACCTGGGCGCGCTACCTGGCGGCGGACAAGGACGGCAACGTGACCTGCGAGCGCGAGGTGCCCGGTCCCGAC
TGCCGTTTCCCTCATCGTGGCGCACGACGACGGTCGCTCGCTGCAGTCCGAGGCGCACCGGCGCTACTTTCGGC
GGCACCGAGGACCGCCTGTCTGCTTCGCGCAGACGGTGTCCCCCGCCGAGAAGTGGAGCGTGACATCGCCATG
CACCTCAGGTCAACATCTACAGTGTACCCGTAAGCGCTACGCGCACCTGAGCGCGCGGCCGCGGACGAGATC
GCCGTGGACCGCGACGTGCCCTGGGGCGTCGACTCGCTCATCACCTCGCCTTCAGGACCAGCGCTACAGCGTG
CAGACCGCCGACCACCGCTTCTGCGCCACGACGGGCGCTGGTGGCGCGCCCGAGCCGGCCACTGGCTACACG
CTGGAGTTCCGCTCCGGCAAGGTGGCCTTCCGCGACTGCGAGGCGCGTTACCTGGCGCCGTCCGGGGCCAGCGGC
ACGCTCAAGCGGGCAAGGCCACCAAGGTGGCAAGGACGAGCTCTTTGCTCTGGAGCAGAGCTGCGCCAGGT
GTGCTGCAGGCGGCCAACGAGAGGAACGTGTCCACGCGCCAGGGTATGGACCTGTCTGCCAATCAGGACGAGGAG
ACCGACCAGGAGAGCTTCCAGCTGGAGATCGACCGCGACACCAAAAGTGTGCCTTCCGTACCCACACGGGCAAG
TACTTGACGCTGACGGCCAACGGGGCGTGCACTCCACCGCCTCCAGCAAGAATGCCAGCTGCTACTTTGACATC
GAGTGGCGTGACCGGCGCATCACACTGAGGGCGTCCAATGGCAAGTTTGTGACCTCCAAGAAGAATGGGCAGCTG
GCCGCTCGGTGGAGACAGCAGGGGACTCAGAGCTCTTCTCATGAAGCTCATCAACCGCCCCATCATCGTGTTT
CGCGGGGAGCATGGCTTTCATCGGCTGCCGAAGGTACGGGCACCTGGACGCCAACCGCTCCAGCTATGACGTC
TTCCAGCTGGAGTTAACGATGGCGCCTACAACATCAAAGACTCCACAGGCAAATACTGGACGGTGGGCAGTGAC
TCCGCGGTACCAGCAGCGGACACTCCTGTGGACTTCTTCTTCGAGTTCTGCGACTATAACAAGGTGGCCATC
AAGGTGGGCGGGCGCTACCTGAAGGGCGACCACGACGGCGTCTGAAGGCCTCGGCGGAAACCGTGGACCCCGCC
TCGCTCTGGGAGTACTAGGGCGGGCCCGTCTTCCCCGCCCCCTGCCACATGGCGGCTCCTGCCAACCTCCCTG
CTAACCCCTTCTCCGCCAGGTGGGCTCCAGGGCGGGAGGCAAGCCCCCTTGCCTTTCAAACCTGGAAACCCAGAG
AAAACGGTGCCCCACCTGTGCCCCCTATGGACTCCCCACTCTCCCTCCGCCCCGGTTCCCTACTCCCTCGGG
TCAGCGGTGCGGCCTGGCCCTGGGAGGGATTTAGATGCCCCCTGCCCTCTTGTCTGCCACGGGGCGAGTCTGGC
ACCTCTTTCTTCTGACCTCAGACGGCTCTGAGCCTATTTCTCTGGAAGCGGCTAAGGGACGGTTGGGGGCTGGG
AGCCCTGGGCGTGTAGTGTAACTGGAATCTTTTGCTCTCCAGCCACCTCCTCCAGCCCCCAGGAGAGCTGG
GCACATGTCCCAAGCCTGTCTAGTGGCCCTCCCTGGTGCACTGTCCCGAAACCCCTGCTTGGGAAGGGAAGCTGT
CGGGAGGGCTAGGACTGACCTTTGTGGTGTTTTTTTGGGTGGTGGCTGGAAACAGCCCCCTCTCCACGTGGGAGA
GGCTCAGCCTGGCTCCCTTCCCTGGAGCGGCAGGGCGTGACGGCCACAGGGTCTGCCCGCTGCACGTTCTGCCAA
GGTGGTGGTGGCGGGCGGGTAGGGGTGTGGGGGCGCTCTTCTCTGTCTCTTTCTTTACCCCTAGCCTGACTG
GAAGCAGAAAATGACCAATCAGTATTTTTTTTAAAGAAATATTATTGCTGGAGGCGTCCAGGCAAGCCTGGCT
GTAGTAGCGAGTGATCTGGCGGGGGCGTCTCAGCACCTCCCCAGGGGGTGATCTCAGCCCCCTCTTTCCGTC
CTTCCCGTCCAGCCCCAGCCCTGGGCCTGGGCTGCCGACACCTGGGCCAGAGCCCTGCTGTGATTGGTGTCTCC
TGGGCCTCCCGGTGGATGAAGCCAGGCGTCGCCCCCTCCGGGAGCCCTGGGGTGAGCCGCGGGGCCCCCTGC
TGCCAGCCTCCCCCGTCCCCAACATGCATCTCACTCTGGGTGTCTTGGTCTTTTATTTTTTGTAAAGTGTCAATTG
TATAACTCTAAACGCCCATGATAGTAGCTTCAAACCTGGAAATAGCGAAATAAAATAACTCAGTCTGC

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FIGURE 2177

MTANGTAEAVQIQFGLINCGNKYLTAFAFGFKVNASASSLKKKQIWTLEQPPDEAGSAAVCLRSHLGRYLAADKD
GNVTCEREVPGPDCRFLIVAHDDGRWSLQSEAHRRYFGGTEDRLSCFAQTVSPA EKWSVHIAMHPQVNIYSVTRK
RYAHL SARP ADEI AVDRDVPWGVDSLITLAFQDQRYSVQTADHRFLRHDGRLVARPEPATGYL EFRSGKVAFRD
CEGRYLAPSGPSGTLKAGKATKV GKDELFALEQSCAQVVLQAANERNVSTRQGM DLSANQDEETDQET FQLEIDR
DTKKCAFRTHTGKYWILTATGGVQSTASSKNASCYFDIEWRDRRITLRASNGKFVTSKKNQQLAASVETAGDSEL
FLMKLINRPIIVFRGEHGFICRKVTGTL DANRSSYDV FQLEFNDGAYNIKDSTGKYWTVGSDSAVTSSGDTPVD
FFFEFCDYNKVAIKVGGRYLKGDHAGVLKASAETVDPASLWEY

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FIGURE 2178

CCGAACGCCCGCAGCAGGGTCAGAAGGGAGGTGGCCGGTCTCCGTCGTGACCTCTGACGGTTTCTGAGCGTTGGC
CTTTGGCACGCGCTACACCCTTTTGCTTTGGTTCTGCCATGCCGATGTACCAGGTAAAGCCCTATCACGGGGGCG
GCGCGCTCTCCGTGTGGAGCTTCCACCTGCATGTACCGGCTCCCCAACGTGCACGGCAGGAGCTACGGCCAG
CGCCGGGCGCTGGCCACGTGCAGGAAGAGTCTAACCTGTCTCTGCAAGCTCTTGAGTCCCGCCAAGATGATATTT
TAAAACGTCTGTATGAGTTGAAAGCTGCAGTTGATGGCCTCTCCAAGATGATTCAAACACCAGATGCAGACTTGG
ATGTAACCAACATAATCCAAGCGGATGAGCCACGACTTTAACCACCAATGCGCTGGACTTGAATTCAGTGCTTG
GGAAGGATTACGGGGCGCTGAAAGACATCGTGATCAACGCAAACCCGGCCTCCCCTCCCCTCTCCCTGCTTGTGC
TGCACAGGCTGCTCTGTGAGCACTTCAGGGTCCTGTCCACGGTGCACACGCACTCCTCGGTCAAGAGCGTGCCTG
AAAACCTTCTCAAGTGCTTTGGAGAACAGAATAAAAAACAGCCCCGCAAGACTATCAGCTGGGATTCACTTTAA
TTTGAAGAATGTGCCGAAGACGCAGATGAAATTCAGCATCCAGACGATGTGCCCCATCGAAGGCGAAGGGAACA
TTGCACGTTTCTTGTCTCTCTGTTTGGCCAGAAGCATAATGCTGTCAACGCAACCCTTATAGATAGCTGGGTAG
ATATTGCGATTTTTCAGTTAAAAGAGGGAAGCAGTAAAGAAAAAGCCGCTGTTTTCCGCTCCATGAACCTCTGCTC
TTGGGAAGAGCCCTTGGCTCGCTGGGAATGAACTACCGTAGCAGACGTGGTGCTGTGGTCTGTACTCCAGCAGA
TCGGAGGCTGCAGTGTGACAGTGCCAGCCAATGTGCAGAGGTGGATGAGGTCTTGTGAAAACCTGGCTCCTTTTA
ACACGGCCCTCAAGCTCCTTAAGTGAATTGCCGTAACCTGATTTTAAAGGGTTTAGATTTTAAGAATGGTGCTCTT
TCATGCCTATTATCAGTAAGGGGACTTGTATTAGAGTCAGAGTCTTTTTATTAGGCCAGTTGTCAAGTGTCAAT
AAAAGCGCATCATGTAATTTA

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FIGURE 2179

MPMYQVKPYHGGGAPLRVELPTCMYRLPNVHGRSYGPAPGAGHVQEEESNLSLQALESRQDDILKRLYELKAAVDG
LSKMIQTPDADLDVTNIIQADEPTTLITNALDLNSVLGKDYGALKDIVINANPASPLSLLVLHRLLCHEFRVLS
TVHTHSSVKSPENLLKCFGEQKKQPRQDYQLGFTLIWKNVPKTQMKFSIQTMCPIEGEGNIARFLFSLFGQKH
NAVNATLIDSWVDIAIFQLKEGSSKEKAAVFRSMNSALGKSPWLAGNELTVADVVLWSVLQQIGGCSVTVPANVQ
RWMRSCENLAPFNTALKLLK

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FIGURE 2180

ATCGGAGTGTGGCAGTGTCTGGGCTGGCCGGCGGGCTGGGCTGCGGCCCGCGCGGGCCGGCGGATGCAGGGGGGCA
ACTCCGGGGTCCGCAAGCGCGAAGAGGAGGGCGACGGGGCTGGGGCTGTGGCTGCGCCGCCCATCGACTTTC
CCGCCGAGGGCCCGGACCCCGAATATGACGAATCTGATGTTCCAGCAGAAATCCAGGTGTTAAAAGAACCCTAC
AACAGCCAACCTTCCCTTTTGCAAGTTCAGCAACCACTCTTGCTGGTTTCTTGTGAGCACTTGAGCCACGTGC
ATGAACCAACCCACTTCGTTCAAGACAGGTGTTAAGCTACTTTGCCAGACGTTTATCAAAATGGGGCTGCTGT
CTTCTTCACTTGTAGTGACGAGTTTAGCTCATTGAGACTACATCACACAGAGCTATTACTCACTTAATGAGGT
CTGTAAAGAGAGAGTTCTGTCAGGATCCTTGTGAGGATATTCTCGTATCCAGAAATCAGATCAAGGGAAGTAG
CCTTGGAAGCACAACTTCACGTTACTTAAATGAATTTGAAGAACTTGCCATCTTAGGAAAAGGTGGATACGGAA
GAGTATACAAGGTCAGGAATAAATTAGATGGTCAGTATTATGCAATAAAAAAATCCTGATTAAGGGTGCAACTA
AAACAGTTTGCATGAAGGTCTTACGGGAAGTGAAGGTGCTGGCAGGTCTTCAGCACCCCAATATTGTTGGCTATC
ACACCGCGTGGATAGAATCATGTTTGTGATTGAGCCAGCAGACAGAGCTGCCATTGAGTTGCCATCTCTGG
AAGTGCTCTCCGACCAGGAAGAGGACAGAGAGCAATGTGGTGTAAAAATGATGAAAGTAGCAGCTCATCCATTA
TCTTTGCTGAGCCCAACCCAGAAAAAGAAAAACGCTTTGAGAAATCTGACACTGAAAATCAGAAATAACAAGTCGG
TGAAGTACACCACCAATTTAGTCATAAGAGAATCTGGTGAACCTTGAGTCGACCTGGAGCTCCAGGAAATGGCT
TGGCTGGTTTGTCTGCCAGTTCAATTGTGGAACAGCAGCTGCCACTCAGGCGTAATTTCCACCTAGAGGAGAGTT
TCACATCCACCGAAGAATCTTCCGAAGAAAATGTCAACTTTTGGGTGAGACAGAGGCACAGTACCACCTGATGC
TGCACATCCAGATGCAGCTGTGTGAGCTCTCGCTGTGGGATTGGATAGTCGAGAGAAACAAGCGGGCGGGAGT
ATGTGGACGAGTCTCGCTGTCTTATGTTATGGCCAATGTGCAACAAAAATTTTCAAGAATTTGGTAGAAGGTG
TGTTTTACATACATAACATGGGAATGTGACCCGACATCTGAAGCCAAGAAATATTTTCTCATGGCCCTGATC
AGCAAGTAAAAATAGGAGACTTTGGTCTGGCCTGACAGACTCCTACAGAAACACAGACTGGACCAACAGAA
ACGGGAAGAGAAACCAACACATACGTCAGAGTGGGTACTTGTCTGTACGCTTCACCCGAACAGTTGGAAGGAT
CTGAGTATGATGCCAAGTCAGATATGTACAGCTTGGGTGTGGTCTGTGCTAGAGCTCTTTCAGCCGTTTGAACAG
AAATGGAGCGAGCAGAAGTTCTAACAGGTTAAGAAGTGGTCAGTTGCCGGAATCCCTCCGTAAAAGGTGTCCAG
TGCAAGCCAAGTATATCCAGCACTTAACGAGAAGGAACATCGCAGAGACCATCTGCCATTAGCTGTGTCAGA
GTGAACTTTTCCAAAATTTCTGGAAATGTTAACCTCACCTACAGATGAAGATAATAGAGCAAGAAAAAGAAATTG
CAGAACTAAAGAAGCAGCTAAACCTCCTTTCTCAAGACAAAGGGGTGAGGGATGACGGAAAGGATGGGGGCGTGG
GATGAAAGTGGACTTAACTTTTAAAGGTAGTTAACTGGAATGTAATTTTTTAACTTTTATTAGGGTATAGTTGGTA
CAATGCTTCGTTGTATTTAGTAAGCCTTTACAAGACTTGTAAAGATGTCAGAGTGCCCCAAGCTGCCGTTCTCT
CCCTTCCTGCCCCACAAGCTCCTTTTCTCGAATTTCTACCTAAATATTAACCATATGCCTAGTCTCTGAACTA
AAAAGTTGGACCTCATCTCAATTATTTTCTCCTTTCAACTCTGTTGACCCCTCTGTCTGGTCTTCTCTAGAAGG
TTCTACCGCAGAAATTGATGTGTGCTCCCTGCCCTCGTCACTGCCCAAGCCGGGCTGCACATACTCACTGGAC
TGTTCCAGTTTTTGACAGCTGCCAGTCTTCTGCCCTTTTCACTGACGCTGAAGTTTATTACCTGAAGGACGCC
TCATCATTTTCACTTCTGGCTCCAAACCTTCTGCTGCCTTAAGATAAAAGCTCAACTTCTTAACAGTGTACAGT
GTGCAACTTCCAACCTTTTATCTGTTCTCTCCACCTTCAGTTTAGCGTCATTCCAAAACACACCCCTTGCAAAG
CTTTGTACTCCGACCCAGATGATCTCCAGGCAGCTCAGATCTCTTCTGCTCTTGGCCCTGCACTGTTCCCCG
GTACTTCTCCTTTATTGTAGCACTCAGCTCCCCAGCCAACTGTGATATCCCTCAGAGGCAGCGATCTGATGAAT
TGGTTTTTGAATCCAGAAAGGTCTGCCATGGAGTTGGCAGTCATCACGGTAGATGGCGTATGATTTTGCTGAA
TTTTAAATAAAATGAAAACCATAAAAA

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FIGURE 2181

MQGGNSGVRKREEEGDGAGAVAAPPAIDFPAEGPDPEYDESDVPAEIQVLKEPLQQPTFPFAVANQLLLVSLLEH
LSHVHEPNPLRSRQVFKLLCQTFIKMGLLSSFTCSDEFSSRLHNNRAITHLMRSKERVQRQPCEDISRIQKIR
SREVALEAQTSRYLNEFEELAILGKGGYGRVYKVRNKLDGQYYAIKKILIKGATKTVCMKVLREVKVLAGLQHPN
IVGYHTAWIEHVHVIQPRADRAAIELPSLEVLSDQEEDREQCGVKNDSSSSSIIFAEPTPEKEKRFGESDTENQ
NNKSVKYTTNLVIRESGELESTLELQENGLAGLSASSIVEQQPLRRNSHLEESFTSTEESEENVNVLGQTEAQ
YHMLHLHIQMLCELSLWDWIVERNKRGREYVDESACPYVMANVATKIFQELVEGVFYIHNMGIVHRDLKPRNIFL
HGPDQQVKIGDFGLACTDILQKNTDWTNRNGKRTPTHTSRVGTCLYASPEQLEGSEYDAKSDMYSGLGVVLELFQ
PFGTEMERAEVLTGLRTGQLPESLRKRCPVQAKYIQHLTRRNSSQRPSAIQLLQSELFQNSGNVNLTLQMKIIEQ
EKEIAELKKQLNLLSQDKGVRDDGKDGGVG

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FIGURE 2182

ATGCAGGCCATCAAGTGTGTGGTGGTGGGAGACGGAGCTGTAGGTAAACTTGCCTACTGATCAGTTACACAACC
AATGCATTTTCCTGGAGAATATATCCCTACTGTCTTTGACAATTATTCTGCCAATGTTATGGTAGATGGAAAACCG
GTGAATCTGGGCTTATGGGATACAGCTGGACAAGAAGATTATGACAGATTACGCCCCCTATCCTATCCGCAAACA
GATGTGTTCTTAATTTGCTTTTCCCTTGTGAGTCCTGCATCATTTGAAAATGTCCGTGCAAAGTGGTATCCTGAG
GTGCGGCACCACTGTCCCAACACTCCCATCATCCTAGTGGGAATAAACTTGATCTTAGGGATGATAAAGACACG
ATCGAGAACTGAAGGAGAAGAAGCTGACTCCCATCACCTATCCGCAGGGTCTAGCCATGGCTAAGGAGATTGGT
GCTGTAAAATACCTGGAGTGCTCGGCGCTCACACAGCGAGGCCTCAAGACAGTGTGTTGACGAAGCGATCCGAGCA
GTCCTCTGCCCGCCTCCCGTGAAGAAGAGGAAGAGAAAATGCCTGCTGTTGTAA

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FIGURE 2183

MQAIKCVVVGDAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAGQEDYDRLRPLSYPQT
DVFLICFSLVSPASFENVRAKWYPEVRHHCPNTPILVGTKLDRDDKDTIEKLKEKKLTPITYPQGLAMAKEIG
AVKYLECSALTQRGLKTVFDEAIRAVLCPPPVKRKRKCLLL

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FIGURE 2184

GCCGCCGCCGCCATGAACATTTTCCGGCTGACTGGGGACCTGTCCACCTGGCGGCCATCGTCATCCTGCTGCTG
AAGATCTGGAAGACGCGCTCCTGCGCCGGTATTTCTGGGAAAAGCCAGCTTCTGTTTGCACTGGTCTTCACAACT
CGTTACCTGGATCTTTTTACTTCATTTATTTTCATTGTATAACACATCTATGAAGGTTATCTACCTTGCCCTGCTCC
TATGCCACAGTGTACCTGATCTACCTGAAATTTAAGGCAACCTACGATGGAAATCATGATACCTTCCGAGTGGAG
TTTCTGGTGGTCCCTGTGGGAGGCCTCTCATTTTTAGTTAATCACGATTTCTCTCCTCTTGAGATCCTCTGGACC
TTCTCCAICTACCTGGAGTCCGTGGCTATCCTTCCGCAGCTGTTTATGATCAGCAAGACTGGGGAGGCCGAGACC
ATCACCACCCACTACCTGTTCTTCTGGGCCCTCTATCGTGCTTTGTATCTTGTCAACTGGATCTGGCGCTTCTAC
TTTGAGGGCTTCTTTGACCTCATTGCTGTGGTGGCCGGCGTAGTCCAGACCATCCTATACTGTGACTTCTTCTAC
TTGTACATTACAAAAGTACTCAAGGGAAAGAAGCTCAGTTTGCCAGCATAAGTGCCAAAGACCATCACCAGCATC
TGTCCTTCAGGGTGCTCGGACAGAATTCTTACCACAGCAAAGGCATAAGATGCTTGATACGGAATCAGAACT
TAACTCTTTGTTGCAGATAGTCATCAGTGGCTCTGTAAAAACGCAGAGGAAAAGAGCCAGAAGGTTTCTGTTTA
ATGCATCTTGCCTTATCTTTTTTTTATTACTGTGTACAAAGATTTTTTTACACAAAGAACTTAATGCTGTATTAA
TAAATTCAGTGTGTAGCTTCAATTGGGATAGTTCCAAAAGTGAAGATTTTGTGAGGAATAAGTGCAAATTTTTTT
TTTATTTTAAAAAATTCTTTGAAACTCTTAAGTCTTTGTGTCTGCAATGAAATTGTACTCCTTGACAGTTGATAG
ATTATGTATTCTTCCATCCCTCAAACCTGCATTCCACTATATTTATTTTTTGGCAAAGATGAGCTGTATTTGTT
TGAAATCTGAGACACTATGTTCAATTGG

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FIGURE 2185

MNIFRLTGDLSHLAAIVILLLLKIWKTRSCAGISGKSQLLFALVFTTRYLDLFTSFISLYNTSMKVIYLACSYATV
YLIYLKFKATYDGNHDTFRVEFLVVPVGGLSFLVNHDFSLEILWTFSIYLESVAILPQLFMISKTEAETITTH
YLFFLGlyRALYLVNWIWRFYFEGFFDLIAVVAGVVQTILYCDFFLYITKVLKGKLSLPA

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FIGURE 2186

ATGAGCGACATCCGCCACTCGCTGCTGCGCCGCGATGCGCTGAGCGCCGCCAAGGAGGTGTTGTACCACCTGGAC
ATCTACTTCAGCAGCCAGCTGCAGAGCGCGCCGCTGCCATCGTGGACAAGGGCCCCGTGGAGCTGCTGGAGGAG
TTCGTGTTCCAGGTGCCCAAGGAGCGCAGCGCGCAGCCCAAGAGACTGAATTCCTTCAGGAGCTTCAACTTCTT
GAAATCATGTGCAATTATTTCCAGGAGCAAACCAAGGACTCTGTTGCGCAGATTATTTTTTCATCCCTTTTCAGC
CCTCAAGGGAACAAAGCCGATGACAGCCGGATGAGCTTGTGGGAAAACCTGGTCTCCATGGCGGTGGCTGTGTGT
CGAATCCCGGTGTTGGAGTGTGCTGCCTCCTGGCTTCAGCGGACGCCCCGTGGTTTACTGTGTGAGGTTAGCCAAG
GCCCTTGTAGATGACTACTGCTGTTTGGTGCCGGGATCCATTAGACGCTGAAGCAGATATTCAGTGCCAGCCCCG
AGATTCTGCTGCCAGTTTATCACCTCCGTTACCGCGCTCTATGACCTGTCATCAGATGACCTCATTCCACCTATG
GACTTGCTTGAAATGATTGTACCTGGATTTTTGAGGACCCAAGGTTGATTCTCATCACTTTTTTAAATACTCCG
ATTGCGGCCAATCTGCCAATAGGATTCTTAGAGCTACCCCGCTCGTTGGATTGATCCGCTGGTGCGTGAAGGCA
CCCCCTGGCTTATAAAAGGAAAAAGAGCCCCCTTATCCAATGGCCATGTCAGCAACAAGGTACAAAGGACCCG
GGCGTGGGGATGGACAGAGACTCCACCTCTTGTACTCAAACTCCACCTCAGCGTCTTGCAAGTGCTCATGACG
CTGCAGCTGCACCTGACCGAGAAGAATCTGTATGGGCGCCTGGGGCTGATCCTCTTCGACCACATGGTCCCGCTG
GTAGAGGAGATCAACAGGTTGGCGGATGAACTGAACCCCTCAACGCCTCCAGGAGATTGAGCTCTCGCTGGAC
CGGCTGGCGCAGGCTCTGCAGGTGGCCATGGCCTCAGGAGCTCTGCTGTGCACGAGAGATGACCTGAGAACCTTG
TGCTCCAGGCTGCCCCATAATAACCTCCTCCAGCTGGTGATCTCGGGTCCCGTGACAGAGTCCGCTCACGCCGCG
CTCCCCCGGGGTCTACCCCCACATCCACACGCCCCGCTGGGGCTACGGGGCTGTCCCGGCCACCCGCGCGC
CACCCCGCCTGCCCACGCACCCCGGCCACACCTTCATCTCCGGCGTGACCTTTCCTTCAGGCCATCCGCTAG

GCTGGCCCGTGTGTGCCTTCTGCGCTCTCGCTGGACGAAGCCTTTCGAGATGGAAGGGGTGGCCGGACTCCAGAG
AGAGAACCTCGGGGAAGGGGTGCGGCAGCCCCCTCCCGCCGGCAGAACCGTCTTGGTGTACGGAGTCCAGGTGC
TTCCACCCGGTGCATTCTTTGACATGCAGATTGGATGGTGGAGGGAAGAGTCCAGCCTCTGCCGAGAGCCTGC
TGCGTGCAATTTTAAAGATGCCGATCCTGGGAGCCTCTGTTCTCTGCGCATTTACAGACACAGCCTGTGTGGCGA
GGAGTGTGACGGCAGGAGCCACGGGTGCAAGCCCGTGTGTCTGGCCTCTTTCCTCGTGAAGACGATGTGTCCCCG
CCAGAAAAAGTGGGCACCTTCTGCAGCCCCGTGAGCTGAGCCAGGCTGCGTAGTGACCACAAGCTTATGTGCAG
CACTGCTCAGGGAGGCTGTGAGGAATTCCTCACCTCGGAAAGGAACTTCTCAGTTTTATTGGGGGTGTCTAAA
TTTCCTTTCATATGTTCAAATAAATTTTCTAAACAGT

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FIGURE 2187

MSDIRHSLRRDALSAAKEVLYHLDIYFSSQLQSAPLP IVDKGPVELLEEFVFQVPKERSAQP KRLNSLQELQLL
EIMCNYFQEQTKDSVRQII FSSLFSPQGNKADDSRMSLLGKLVSMAVAVCRIPVLECAASWLQRTPVVYCVRLAK
ALVDDYCCLVPGSIQTLKQIF SASPRFCCQFITSVTALYDLSSDDLIPMDLLEMIVTWIFEDPRILITFLNTP
IAANLPIGFLELTPLVGLIRWCVKAPLAYKRKKKPPLSNGHVSNKVKDPGVGMDRDSHLLYSKLHLSVLQVLMT
LQLHLTEKNLYGRLGLILFDHMFVPLVEEINRLADELNPLNASQEIELSLDRLAQALQVAMASGALLCTRDDLRTL
CSRLPHNNLLQLVISGPVQQSPHAALPPGFYPHIHTPPLGYGAVPAHPAHPALP THEGHTFISGVTFPFRPIR

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FIGURE 2188

GGCACGAGGAAGCTACTCAGATAAGAGGCTCCAAGAGGACATTTTGGATGTGAAAAACAATGAGAAGGAGGACA
ACACACATTTACAATCGTCTTAATTTTGTACTCAGAAAAAGGATGTGAAGACAATGCACAGGGAATACAATAGTT
TCAGATCTGTGTACAGTTTCCTTTTGCTTCATCTCCTGCAACAATGTAATGAAGACACCATGATATCATTAAACAT
TTCACACAAAAGGAAAATGAGGCTGAAATGGTGTGGGCAAGGCCAGGAATCTGGAGCATCCCTAACCAAGCAGC
AGAGCACCTGGGATAGAGAAAGTGCTCAAGAATGTCACTTACTGATTACTACAATCAAAAAAAGATACGACACT
AATTTACCACATTCTTCTTACTTATTTTATGAGATACTATTCTTCCAAGGTGGAGAAAGTGGAGAAAGTAGAGTG
ACGCAGCTAAGGGAGTAAATCGACCCTCAGCCAACAAGTGGCAAAAGCCTGAAGAAAGTGATCAAGATCACTGAT
GACCCCGCGGCCCATCTCCAAGGGGGCGGGTATCACAACCCCGACGCCACACCACGTATCATTCCGCAAAACTCC
CGCGCCTCCACGCAGAACTGGCAAGAGGGAAGGCGAGACAGCAGTGAACAGCTGGTACGCAGCACCCACAGCAC
CGCGGCAGCAGCTAGTGCCGACTCCCGCCTAGCTCTTTGACTCTGTTCGCGGGAAGAATGGGGAAACAGTAAGG
TTGCGGCGCCTCCCGCGAGACGAGGTACCTGAGGCTGGCCCCGCGAGTCCCCCGCCGACCCAGCACCAGGAGCTTCA
CACCCCACTTCCGGGGTCAAGTCACCGCCGGGAATCCTGTGATCGCAGAAAGGTAGTCTCAGGTTCCGCCCCAT
CCAAGTCCCGCCTCCACTGCCTCTCGCCCTGTATCTGTCAACTTCCGGGACGCCGCGCGTCACTAAGCAGCCAAT
CTCCACTTCCGGACTCATCCAGCCCCCTCTCCACCCCTTTCAGAGACAGCGCGATTGCGATTTAGGTTTCCGCGC
ATTTAATTGGCGAAGCTGGAGCGCTAGTCTTCGCTGATTGGTGCCGAGAAATCTGCCCCATAGACACCCGCGGGG
CGCACAGTTTCAGTCGTCCGTGGGTTTCCCGCCAGCCGAGTCTTGGAACATAATCATGGTGGACATGATGGACT
TGCCAGGTGCGCATCAACGCCGGCATGCTAGCTCAATTCAATCGACAAGCCTGTCTGCTTCGTAGGGAGGCTGG
AAAAGATTCAATCCACCGGAAAAATGTTTATTCTTTTATGATGGAGAAGGAAAAAATGGAACCATCGAGTTGATGG
AACCCTTGATGAAGAAATCTCTGGAATTGTGGAAGTGGTTGGAAGAGTAACCGCCAAGGCCACCATCTTGTGTA
CATCTTATGTCCAGTTTAAAGAAGATAGCCATCCTTTTATGATCTTGACTTTACAATGAAGCTGTGAAAATTATCC
ATGACTTCCCTCAGTTTATCCTTTAGGGATTGTGCAACATGATTGATCTTGATGGATTTTCATACGATTGTAAA
TGAGCTATATTAAAGTCTATTAAAGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2189

MVDMMDLPRSRINAGMLAQFIDKPVCFVGRLEKIHPTGKMFILSDGEGKNGTIELMEPLDEEISGIVEVVGRVTA
KATILCTSYVQFKEDSHPFDLGLYNEAVKIIHDFPQFYPLGIVQHD

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FIGURE 2190

CAACCGAATGGTCAACCATTTTATTGCTGAGCTCAAGCGCAAGCATAAGAAGGACATCAGTGAGAGCAAGAGAGC
TGTAAGATGCCTCCGTACTGCTTGTGAACATGCTAAGCGTACTCTCTCTTCCAGCACCCAAGTCAGTATTGAGAT
CGATTCTCTCTATGTAGGAATTGACTTCTATACCTCCATTACCTGTGCCCAGTTTGAAGAATTGAATGCCTGGGG
GATTCCCTGTTGGTGGAGCTCCTCCTTCTGGTGGTGCTTCCTTAGGGCCCACCATCGAAGAGGTTGATTAAGCCA
ACCCAAGTATAGATGTAGCATTGTTCCACACATTTAAACATTTGAAGGACCTAAATTTGTAGCAAATTCTGTGG
CAGTTTTAAAAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATATGCACAGG
GGAAGGAAATAACATTGCACTTTATAAACACTGTATTGTAAGTGGAAAATGCAATGTCTTAAATAAACTATTTA
AAATTGGCACCAT

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FIGURE 2191

CAGCCATCCTGTCTGGAGACAAGTCTGAAAATGTTCAAGATTTGCTGCTCTTGGACGTCACCTCCTTTCCCTTG
GTATTGAACTGCTAGTGGAGTCATGACCATCCTCATCAACTGTAATACCACCATTCTACCAAGCAGACACAGA
CCTTCATTACCTATTCTGACAACCAGCCTGGTGTGCTTATTCAGGTTTATGAAGGTGAGCGTGCCATGTCCAAGG
ATAACAACCTGCTTGGCAAGTTTGAATTCACGGGCATACCTCCTGAACCCCAAGGTGTTCTCAGATTGAAGTCA
CTTTTGACATTGATGCCAATGGTATCCTCAGTGTCTCTGCTGTGGACAAAAGTACAGGAAAAGAGAATAAAATTA
CTATCACTAATAATAAGGGCCATTTGAGCAAGGAAGACATTGAACGTATGGTCCAGGAAGCTGAGAATTAAAAAG
CTGAAGATGAGAAGCAGAGGGACAAGGCGTCATCCAAGAATTCATTGAGTCCTATGCATTCAACATGAAAGCAA
CTGTGGAAGATGAGAACTTCAAGACAAGATTAATGATGAGGACAAACAGAAGATTCTGGACAGGTGTAATGAAA
TTATCAACTGGCACAATAAGAATCGGACTGCCAAGAAGGAAGAATTTGAACATCAGCAGAAAGAGCTGGAGGAAC
TTTGCAACCCCAATCATCACCAAGCTGTACCAGAGTGCAAGGCATGCCAGGAAGAATGCCTGGGGGATTCCCTG
TTGGTGGAGCTCCTCCTTCTGGTGGTGCTTCCTTAGGGCCCACCATCGAAGAGGTTGATTAAGCCAACCCAAGTA
TAGATGTAGCATTGTTCCACACATTTAAAACATTTGAAGGACCTAAATTTGTAGCAAATTCGTGGCAGTTTTAA
AAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATATGCACAGGGGAAGGAAA
TAACATTGCACTTTATAAACACTGTATTGTAAGTGAAAAATGCAATGTCTTAAATAAACTATTTAAATTTGGCA
CCAT

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FIGURE 2192

MTILINCNTITPTKQTQTFITYSDNQPGVLIQVYEGERAMSKDNNLLGKFEFTGIPPEPQGV PQIEVTFDIDANG
ILSVSAVDKSTGKENKITITNNKGHL SKEDIERMVQEAEN

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FIGURE 2193

CCGTAGTGTCTCATTGCAGATAATTTTGTAGCTTAGGGCCTGGTGGCTAGGTCGGTTCTCTCCTTTCCAGTCGGAG
ACCTCTGCCGCAAACATGCTCCGCCAGATCATCGGTCAGGCCAAGAAGCATCCAAGCTTGATCCCCCTCTTTGTA
TTTATTGGAACTGGAGCTACTGGAGCAACACTGTATCTCTTGGCTCTGGCATTGTTCAATCCAGATGTTTGTGG
GACAGAAATAACCCAGAGCCCTGGAACAACTGGGTCCCAATGATCAATACAAGTTCTACTCAGTGAATGTGGAT
TACAGCAAGCTGAAGAAGGAACGTCCAGATTTCTAAATGAAATGTTTCACTATAACGCTGCTTTAGAATGAAGGT
CTTCCAGAAGCCACATCCGCACAATTTTCCACTTAACCAGGAAATATTTCTCCTCTAAATGCATGAAATCATGTT
GGAGATCTCTATTGTAATCTCTATTGGAGATTACAATGATTAAATCAATAAATAACTGAAAAAAAAA

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FIGURE 2194

MLRQIIGQAKKHPSLIPLFVFIGTGATGATLYLLRLALFNPVCWDRNNPEPWNLGPNDQYKFYSVNVDSKLG
KERPDF

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FIGURE 2195

GCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCTCTAGG
CCTTTTAGAAAACATGGAGTTGTTCTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAGACATC
AAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTACCATGGCAAACTGGAAGAGTCTACAATGTT
ACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATGTGCGT
ATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAAAGAAA
GAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGAGCTGCTGGAACCTATTCCTATGAATTC
ATGGCATAATAGGTGTT

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FIGURE 2196

MTNTKGKRRGTRYMFSRPFRKHGVVPLATYMRIYKKGDIVDIKGMGTVQKGMPhKCYHGKTGRVYNVTQHAVGIV
VnkQvKgKILAKRINVRIEHIKHSKSRDSFLKRvKENDQKKKEAKEKGTWVQLKRQPELLEPIPYEFMA

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FIGURE 2197

GCTCGGGCGCGGGGCGTTCTTGGTGCGCCGGGCCGTGGTGAGTCCGGGCTCCCGTGGCCGCGTGCTGGGAGGAGA
CTGGAGCCCGTTAGGAAGAATGGAGTTGGCGACTCGCTACCAGATCCCTAAAGAAGTGCGTGACATCTTTAACG
CCCCAGTGATGATGAAGAGTTTGTGGCTTCGAGATGATGTTCCCATGGAAACCTCTCGTCAGAGGAGAGCT
GCGATAGTTTTGACTCAGTAGAGTCAGGGAAACAGCAGGATGTGCGCTTTTCATTCCAAATACTTCACAGAAGAGC
TAAGAAGAATTTTATAGAGGACACTGACTCAGAGACTGAGGATTTTGCAGGATTACGCAGAGTGATCTGAATG
GAAAGACTAACCCAGAAGTAATGGTCGTGGAGTCAGATTTGAGTGATGATGGCAAAGCATCTTTGGTGAGCGAGG
AAGAGGAAGATGAAGAAGAAGATAAGGCTACCCCTAGAAGAAGCAGGTCTAGAAGAAGTAGTATTGGTCTTCGAG
TAGCCTTTTCAGTTCCCCACCAAGAAGCTGGCCAACAAACCAGATAAAAAACAGTTCTTCCGAGCAGTTGTTTTCTA
GCGCACGCTTACAGAATGAGAAAAAACAATTCTTGAAAGAAAGAAAGACTGTAGACAGGTGATACAAAGGGAAG
ATTCTACCTCTGAGTCTGAGGATGACTCTCGGGATGAGAGCCAGGAGAGTTCAGATGCTTTGCTGAAAAGGACCA
TGAACATCAAGGAGAACAAGCCATGCTTGCCAGTTATTGGCGGAATTGAACTCGATGCCAGATTTCTTCCAG
TACGAACCCCAACCTCAGCTTCTAGGAAGAAGACAGTGAGGCGGGCCTTCTCGGAGGGACAGATCACGCGCGTA
TGAACCCAACCCGGAGTGCGCGGCCTCCTGAGAAGTTTGCTCTAGAGAACTTCACTGTCTCAGCCGCTAAATTTG
CGGAAGAGTTTTACAGCTTCCGAAGAAGGAAGACAATTGGGGGGAAATGCCGGGAGTACAGACGACGTCACCGTA
TATCTTCTTTTCGGCCAGTGGAGGATATCACCGAAGAGGACTTAGAAAAATGTTGCCATAACTGTTTCGAGATAAAA
TCTATGATAAAGTTTCGGGTAAACAGTGCCATCAGTGTGACAAAAAGACCATCGACACCAAGACAGTGTGTCGGA
ACCAGGGTTGTGTGGTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACCGCTATGGGGAGGATGTCAGAT
CGGCATTGTGGACCCGGATTGGGTGTGTCCCCCTGTGCTGGGATCTGCAATTGCAGCTACTGTGCGAAGCGTG
ACGGCCGCTGTGCCACAGGAATCCTCATTATCTGGCCAAGTTTTATGGTTATGACAATGTTAAGGAATATCTGG
AGAGCTTACAAAAGGAGCTGGTAGAAGACAATTAAGAGGAAAACAAACAGAACCAGCCACCTCACCATAGAGTAC
TCCAACAAGACATGCATACCATTGGTGCCTAAGATTTATTAAACTTGACTGAACAAAAGGGGACCATCAACATT
GTAGACACTGGACACTGGAGGCCTTACAGAGTGCTAGCCTCTTCCTTCAGGACTCACCTGGGGCCTGCTGCTTTT
ATATTTTGAAGAGTTTAAGGGCTAATAATTTAATTTGTTGTTTGTAAAAATTAAATCTCCGTTCTTTCCGGC
TGCATTGCTTTTGCATGTTACATATGATGTACTTTTATGATGTACTTTTTTTTTTTTGAGATGGAGTCTTGTTT
TGTTGCCCAGGAGGGAGTGAGTGGTGCAACCTCGGCTCACTGCAACCTTGCCTCCTAGGTTCAAGTGATTCTC
CTACCTCCTGAGTAACTGGGATTACAGTCGTGTGCCACCACGCTCAGCCCTGAGTTAGTTTCTAGTATTTTTTC
TGACTTTCACTCTAAGGATAGCGTTGAAAAAGAATGCACGTGTGAGTTACTAAAAAGTTAGAATAATGTGCATG
GGAACAGTGCAGCAACATGCTAGAAAATCCTCACTGCACTCCAGCAGAGGCTAGAGGAATGCCAGTGTTACCTTA
CGCTTCTAGAAGCAGAGCCACTCCAGCCAGAACCCATTTGCAGTCTTCTCTTCGCTCTCAGCCTGAAGTCCA
GATGTAGCTGGGGCCTCTCAGTTGGTTCTATACACAGGGCACTCGTAGGTCTGTTTGGTTCTTGTCTGTCCAC
GGGGGTGGCTTTTGCAAAGATGACCGGCATAGGGCATGCCAGCTCCTTGAGACGGGCTTCAACAATGGTTCCTGC
TTGGGTGTCCAGCGGGCGCTATGGCAAAAACACAGCGGTTGCAATTGTGTGGCAGCTTGCTACTAATGATAAT
GATCAAGTAAGTTGTTTGATGCAATAAACATTCAACATTCTGTTTTGTCAT

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FIGURE 2198

CTTTTTCGCAACGGGTTTGCCGCCAGAACACAGGTGTCGTGAAAACTACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTGAGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTC
AAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGGGACTTCATCAAAAACATGATTACA
GGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAG
AATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATAATTGTCGGTGTAAACAA
ATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAATCAGCACTTACATTAAGA
AAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAA
GTGCTAACATGCCTTGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACCACGCTGCTTG
AGGCTCTGGACTGCATCCTACCACCAACTCATCCAAGTGAAGCCCTTGCGCCTGCCTCTCCAGGATGTCTACA
AAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTACCT
TTGCTCCAGTCAACGTTACAACGGAAGTAAATCTGTGCGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTG
GGGACAAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTGCTCGTGGCAACGTCGCTGGTGACAGCA
AAAATGACCCACCAATGGAAGCAGCGGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCA
CCGGCTATGCCCTGTATTGGATTGCCACACGGCTCACATGTCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTG
ATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATCTTGAAGTCTGGTGTATGCTGCCATTGTTGATATGG
TTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTCGCTTGCTGTTCTGTGATATGA
GACAGACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTG
CCCAGAAAGCTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGGTGGGAAGAA
TGGTCTCAGAACTGTTTGTTCATTGGCCATTTAAGTTTAGTAGTAAAAGACTGGTTAATGATAACAATGCATC
GTAAACCTTCAGAAGGAAAGGAGAATGTTTGTGGACCACTTTGGTTTTCTTTTTTTCGGTGTGGCAGTTTTAAG
TTATTAGTTTTTAAATCAGTACTTTTTAATGGAAACAACCTGGACCAAAAATTTGTCACAGAATTTTGAGACCCA
TT

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FIGURE 2199

MLEPSANMPWFKGWKVTNRKDNASGTTILLEALDCILPPTHPTDKPLRLPLQDVYKIGGIGTVPVGRVETGVLKPG
MVTTFAPVNVTTTEVKSVEMHHEALSEALPGDNVGFNVKNVSVKDVRGNVAGDSKNDPPMEAAGFTAQVILNHP
GQISTGYAPVLDCHTAHIACKFAELKEKIDRRSGKKLEDGPKFLKSGDAAIVDMVPGKPMCYESFSYPLGRFA
VRDMRQTVAVGVIAVDKKAAGAGKVTKSAQKAQKAK

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FIGURE 2200

GAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGGGACTTCATCAAAAACATGAT
TACAGGGACATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATA
ATTGTCGGTGTTAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAA
TCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTG
ACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCA
GTGGAACCACGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCATCCAAGTACAAGCCCTTGCGCCTGC
CTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTTCTCAAAC
CCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACACGGAAGTAAATCTGTGAAATGCACCATGAAGCTT
TGAGTGAAGCTCTTCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTGTCGTGGCA
ACGTCGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCGGGCTTCACTGCTCAGGTGATTATCCTGAACC
ATCCAGGCCAAATAAGCACCGGCTATGCCCTGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGCTG
AGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAATAIGGTTCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAG
ACTATCCACCTTTGGGTCGCTTTGCTGTTCTGTGATATGAGACAGACAGTTGCGGTGGGTGTCAAAAGCAGTGG
ACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCAGAAAGCTCAGAAGGCTAAATGAATATTATCCC
TAATACCTGCCACCCCACTCTTAATCAGTGGTGAAGAA

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FIGURE 2201

MVTTCSQVLTCLGTMLLEALDCILPPTRPTDKPLHLPLQDVYKIGGIGSVPVGRVETGVLKPGMVVTFAPVNV
TEVKSVEMHHEALSEALPGDNVGFNVKNVSVKDVRHGNVAGDSKNDPPMEAAGFTAQVIIINHPGQISTGYAPVL
DCHTAHIACKFAELKEKIDHRSGNMVPGKPMCVESFSDYPSLGCFAVRDMRQIVTVGVKAVDKKTAGAGKVTKS
AQKAQKAK

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FIGURE 2202

TATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCC
TTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACTGGTATCACCATTGATATCTCCTTGTGG
AAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGGGACTTCATCAAAAACATGATT
ACAGGGACATCTCAGGCTGACTGTGCTGTCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCC
AAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTGTCGGTGTAAAC
AAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAATCAGCACTTACATTA
AGAAAATTGGCTACAACCCGACACAGTAGCATTTGTGCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGC
CAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACACGCTGC
TTGAGGGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTGCGAAATGCACCATGAAGCTTTGAGTGAAGCTCTT
CCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCTGGCAACGTCGCTGGTGAC
AGCAAAAATGACCCACCAATGGAAGCAGCGGGCTTCACTGCTCAGG

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FIGURE 2203

GTGAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGA
TTCAGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCCGTGGCATCGACAAAAGAACCATTGAAAAATT
TGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCG
TGAACGTGGTATCACCATTGATATCTCCTTGTGGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGT
GTGAA

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FIGURE 2204

GAAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATT
CAGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTG
AGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTG
AACGTGGTATCACCAATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCC
GGGACATCTCAGGCTGACTGIGCTGTCCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAG
AATGGGCAGACCCGAGAGCATGCCCTTCTGG

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FIGURE 2205

CTCTCTCCGGTCCATGCCTCCAAGATGACAAAGAAAAGAAGGAACAACGTTTCGTGCCAAAAAGGGCCGCGGCCAC
GTGCAGCCTATTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAACGCCATTAAGAAATTCGTCATTCTGA
AACATAGTGGAGGCTGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TGTGTGAAGCTACATTACTGTGTGAGTTGTGTAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGC
AAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCGCACGTCCCCACCAAAGCCCATGTAAGGA
GCTGAGTTCTTAAAGACTGAAGACAGACTATTCTCTGGAGAAAAATAAAATGGACATTGTACTTAAAAAAAACA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 2206

CCGTGATGTGGCGCCTGCACAXTCCTTTCCCTTTTCGGATTCCCGACGCTGTGGTTGCTGTAAGGGGTCTCCCTG
CGCCACACGGCCGTCGCCATGGTGAAAGCTGAGCAAAGAGGCCAAGCAGAGACTACAGCAGCTCTTCAAGGGGAGC
CAGTTTGCCATTGCTGGGGCTTTATCCCTCTTGATTTACCTGGGATTAAAGAGGGGTGCAGATCCCGGAATG
CCTGAACCAACTGTTTTGAGCCTACTTTGGGGATTAAAGGATTATTTGGTCTTCTGGATTGGAGGCAATCAGCGG
ACAGCATGGAAGATGTGTGCTCTGGCTCGGATAAGAGATGGGACATCATTCACTAGTTGGATGGCACAAGG
CTCTTCACAGACGCATCTGTAGCAGAGTGGAAGTTGTACTAACTTATGATAGAATGTATCAGAATAAATGTTTTT
AACAGTGTA

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FIGURE 2207

MVKLSKEAKQRLQQLFKGSQFAIRWGFIPLVIIYLGFKRGADPGMPEPTVLSLLWG

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FIGURE 2208A

GGACGTCCGGCTTCGGAGCGGGAGTGTTCGTTGTGCCAGCGACTAAAAAGAGAATTAAATATCGGSGTGATGTTGAG
AAAGGCAAGAAGATTTTTATTATGAAGTGTCCAGTGCCACACCGTTGAAAAGGGAGGCCAAGCACAAGACTGGG
CCAAATCTCCATGGTCTCTTTGGGCGGAAGACAGGTGAGGCCCTGGATACTCTTACACAGCCGCCAATAAGAAC
AAAGGCATCATCTGGGAGAGGATACACTGATGGAGTATTTGGAGAATCCCAAGAAGTACATCCCTGGAACAAAA
ATGATCTTTGTGCGGCATTAAGAAGAAGGAAGAAAGGGCAGACTTAATAGCTTATCTCAAAAAAGCTACTAATGAG
TAATAATTGGCCACTGCCCTATTTATTACAAAACAGAAATGTCTCATGACTTTTTTATGTGTACCATCCTTTAAT
AGATCTCATACACCAGAATTCAGATCATGAATGACTGACAGAATATTTTGTGGGCAGTCCTGATTTAAACTAA
GACTGGCTTGTGGTTAAATGAATATGTTCACTTTTTGAATTTAATAGTAACTCCAATTCAGTAAATGGTATCAC
TGTTTACCCCTTTTAAAGATATGATTAGACTTCGTTAGTAATGTTCAACTTTTCACAAAGATGGTGAGTGCCATC
TTAAACTTACTGGAGATTGGTTTTATTTAGATTTATATACTGGTTATGTGAATATATTTAAATACTGGGGA
AATTGCTTCACTGTCTTAGAACCAAGCAAGATTCACCTGTGTTTTGTGTTTCATGTTCAATTTGCCCTCTTAAAGGCA
AGGGTTGAAGATAAATAAGGTTGCAATGTCTATAGTTTTGGCCTTAACTATGCCAATCTAATTATAATTCCTGT
ATTTAAATGGTTTTCTTTACTTATTGAAAGGCATTTTAGTGTGGTTTTATGTGTAATATTAAAGATTATTCACA
CCTCTCACATCTTACAGATCTATAAGGTCACATGCTTTTAAATAGTAGCAAGTTAACTTCACTCTTGAATTCT
TTACAATCTAAGTCAAATAAGTTATAATTTAGGATTGTCTTTAAACAGCCATTCAGAAACAAACTGTAGAACT
GTGATTTGATTGGGAATGGTGCTTTTGCCAACTTAAAGGATTAAAGTAACGGAGATATACACAAATTTTAAAA
TTATGTGTGATCACAAGACTAAAGATAATTAAAAAGAAACCACAGATCATGACTTTTGACTGTGCTTGATTTT
ATGACTGATGCACAAATTTAATGATTAAAAAGTGCAGGAGCCCTAAATGTCAGTGCAGCAGCCCTAAATGTCAG
TGCAGCAGTGTTAACCAGTCATGGTGCTAGATTGTTTACTTGGTTTTCTAGGACTGCCTCACTAGAATAACACT
TCACTAATTGACTCTTAGTTCTTTGCTCAGATTGAGAACTGCAGCATTTATGCCAGACATGGACAGAGGAATGC
CTGTGGTCATAGTTTTGTGATGTGTAACAGTGTATAATTACATACTGAATTATTTTCATGCATAGTCTGTGCCATA
CACATTTAGAGTAGTCCTTGAGATTTTATGGAGATGGTGAGCACAAGGTAAGTCATAAAGAATAATGAGAAAAAT
AAATCTATGCTGGTGACGTGAGAACTGTATCTTTGTGGGACAGTGAGAAGACTGAGAAGATGTGAATCCATGGT
CTCAAAGGTGATAGGGACGATTAGATAGGTGTTTTAAGGCCTGAAAGCAATTTATAACATATGAGTCTTATTTTT
ATTTATAGAAATGTGGAAAGCTTGCTGTAATTCATATTTGAAGTCTAGTCTGAGTTCTGGTGGGGAATTTAAAA
ATGCATCCTGGAAATCCTTTAAAGATTTTCACTTTGAAAGGCCTGTAGCAGAGGACTTGGTGACTGTATAAAG
TTAGTGGTATTACAGGACAGTGTAGCAAGTAGCTTACAAGGGGACAATTCAGACTAATGAGAAAGACCTGAAGT
GAAGGCTAGAGAGTTGATTTTTTTTTTTTTTGGCATCCTGGAAATGATACAGGAAACATATTAAAGATAGATACAG
AAATGTGTTCAACCTTCCATCTTGCTAGTTGTGGCGTTTAGTTTGTTTTTGAGACATGGTCACGCTGTGTGCGC
CAAGGCTGGAGTGACGTGGTGCGATCTCGGCTGGCTGCAGCCTCTATTTCCAGGCTCAAGCGATTCTCTCACTT
CAGCTTCCCAAGTAGCTGGGACTGCGGGTGTTCGCCACCATGCCAGCTAATTTTTTTGTAGAGATGGAGTTTTG
CCATGTGGTCCCAGGCTGGTCTCAACTCCTGAGCTCAAGCAATCCGTCCACTTGCCTTGGCTCCCCAAAGTGCT
GGGATTGCAGGCGTGAGCCACCAGGCCCTGCCTGGTTTTCAAATTCAGAAATCTTATTATTTAACCAGAAAGTAA
TCAGCCCAGTAGTAACCTTAGGTTAATTTTTTTTTCAGGTTTAAAAATTTTCTCATTATTTTTTCTGAGACGGAG
TTTCGCCCTTTTCGCCAGGCTGAGTACAGTGGTGCAATCTCACTGCAACCTCCGCCTTCCAGTTGCAAGTGATT
CTCCTGCCCTCAGCCTCCTGAGTAGCTGGGATTGCAGGCACCCGCCACCACGCTGGCTAATTTTTGTATTTTTAG
TGGAGATGGTGTTCACCATGTTGGCCAGACTGGTCTTGACTCCTGACCTCGTGATCCACCCACCTTGGCCTCC
CAAAGTTCTAGGATTACAGGTGTGAGCCACCACGTCGGGCCAATTTTTCTCATTTCTATGCCTCCTATATTAAGG
TCTGTGTTGGCACAGATGAGTAACTGCCATGTTCTAGGTGAGTTATACCCAAGCACTTCTGGTGGTTTTAAATGT
GATTCTGTAACCTTTTTATTTTTTTTGGAGATAATTTCACTCTGTTGGCCAGGCTGGAGTGCAATGGCGT
GATCGCTGCTACCCGCAACCTCCGCCTTCCAGGTTCAAGCGATTCTCCTGACTCAGCCTCTCAAGTAGCTGGGAT
TACAAGCATGCCCAACCATGCCAGCTTATTTTTGTGTTTTTAGTAGAGACAGGGTTTCTCCATGCTGGACAGGCT
GGTCTTGAATCCCGACGTCGGGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCAC
CAGCCTGGCCAAATGTAATTTTTTAAAAAGGACATTTCTATCAGGGATATATACCTTCAGAAATAAGGAAAT
AGGGGAAAAAAGAGCACTATAAACACATGTTTTCAATTTCTAGTGCTTCGCTGTAAAGTGGCTAGGTTGGTAGAA
TCAAAAACAAGGGCCAGATGTATTTAAGGGGATTAGATGCCACCTACATGCTTATTTGTCTAGAACAGTGCT
GTCTAATAGAACTTCTGTGACGATGGATATTTTTGTAGACTTTTGTGTCCAGTGTGGTAGCCACTAACCACATG
TGGCTGTTAAGCCCTTGAATATAGCTAGTGTGACTAGAAAGTATTTTATTTTAAATTTACATAGGCACAAGTGG

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FIGURE 2208B

CTAGTGGCTACTGTATTGACATTCTGGGTCTAGGACTAGAACCAGTGGTCTGTAACAAAAGTACTTTCTCTTTAC
TCTATTAAATCTAGAATTAGCCGGGCATGGTCGCTCATGCCTGTGGTCCCAGCACTTTGGGAGGCCAAGGCAGGC
AGATCACTTGAGGTCGGGCGTTTGAGACCAGCCTGGTCAACATGGCGAAACCCTGTCTCTACAAAAACATAAAA
GTTAGCCAGGTGTGGTGGTGGGCACCTGTAGTCTCAGCTACTTGGGAGGCTGAGGCACAAGAATCACTTGAACCTT
GGGAGGTGGAGGTTGCAGTGAGCCAGGATTGTGCCACTGCACTCAAGCCTGGGTGACGAGTGAACTGTCTCCAA
AAAAAAAAAAAAAA

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FIGURE 2209

MGDVEKGKKIFIMKCSQCHTVEKGGKHKTGPNLHGLFGRKTGQAPGYSYTAANKNKGIIWGEDTLMEYLENPKKY
IPGTKMIFVGIKKKEERADLIAYLKATNE

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FIGURE 2210

AGTAGCAGCAGCGCCGGGTCCCGTGCGGAGGTGCTCCTCGCAGAGTTGTTTTCTCGAGCAGCGGCAGTTCTCACTA
CAGCGCCAGGACGAGTCCGGTTCGTGTTTCGTCCGCGGAGATCTCTCTCATCTCGCTCGGCTGCGGGAAATCGGGC
TGAAGCGACTGAGTCCGCGATGGAGAGAGAAAAGGAACAGTTCGGTAAGCTCTTTATTGGTGGCTTAAGCTTTGA
AACCACAGAAGAAAGTTTGAGGAACTACTACGAACAATGGGGAAAGCTTACAGACTGTGTGGTAATGAGGGATCC
TGCAAGCAAAAGATCAAGAGGATTTGGTTTTGTAACTTTTTTCATCCATGGCTGAGGTTGATGCTGCCATGGCTGC
AAGACCTCATTCAATTGATGGGAGAGTAGTTGAGCCAAAACGTGCTGTAGCAAGAGAGGAATCTGGAAAACCAGG
GGCTCATGTAACTGTGAAGAAGCTGTTTTGTTGGCGGAATTAAAGAAGATACTGAGGAACATCACCTTAGAGATTA
CTTTGAGGAATATGGAAAAATTGATACCAATTGAGATAATTACTGATAGGCAGTCTGGAAAGAAAAGAGGCTTTGG
CTTTGTTACTTTTGATGACCATGATCCTGTGGATAAAATCGTATTGCAGAAATACCATAACCATCAATGGTCATAA
TGCAGAAGTAAGAAAGGCTTTGTCTAGACAAGAAATGCAGGAAGTTCAGAGTTCTAGGAGTGGAAGAGGAGGCAA
CTTTGGCTTTGGGGATTACCGTGGTGGCGGTGGAATTTTCGGACCAGGACCAGGAAGTAACCTTTAGAGGAGGATC
TGATGGATATGGCAGTGGACGTGGATTTGGGGATGGCTATAATGGGTATGGAGGAGGACCTGGAGGTGGCAATTT
TGGAGGTAGCCCCGTTATGGAGGAGGAAGAGGAGGATATGGTGGTGGAGGACCTGGATATGGCAACCAGGGTGG
GGGCTACGGAGGTGGTTATGACAACTATGGAGGAGGAAATTATGGAAGTGGAAATTACAATGATTTTGGAAATTA
TAACCAGCAACCTTCTAACTACGGTCCAATGAAGAGTGGAACTTTGGTGGTAGCAGGAACATGGGGGGACCATA
TGGTGGAGGAAACTATGGTCCAGGAGGCAGTGGAGGAAGTGGGGTTATGGTGGGAGGAGCCGATACTGAGCTTC
TTCCTATTTGCCATGGGCTTCACTGTATAAATAGGAGAGGATGAGAGCCCAGAGGTAACAGAACAGCTTCAGGTT
ATCGAAATAACAATGTTAAGGAACTCTTATCTCAGTCATGCATAAATATGCAGTGATATGGCAGAAGACACCAG
AGCAGATGCAGAGAGCCATTTGTGAATGGATTGGATTATTTAATAACATTACCTTACTGTGGAGGAAGGATTGT
AAAAAAAATGCCTTTGAGACAGTTTCTTAGCTTTTTAATTGTTGTTTCTTTCTAGTGGTCTTTGTAAGAGTGTA
GAAGCATTCCCTTCTTTGATAATGTTAAATTTGTAAGTTTCAGGTGACATGTGAAACCTTTTTTAAGATTTTCTC
AAAGTTTGAAGCTATTAGCCAGGATCATGGTGTAAATAAGACATAACGTTTTTCCTTTAAAAAAATTTAAGTG
CGTGTGTAGAGTTAAGAAGCTGTTGTACATTTATGATTTAATAAAATAATTCTAAAGGAAAAA

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FIGURE 2211

MEREKEQFRKLFIGGLSFETTEESLRNYEQWGKLTDCVVMRDPASKRSRGFGFVTFSSMAEVDAAAMAARPHSID
GRVVEPKRAVAREESGKPGAHVTVKKLFVGGIKEDTEEHHLRDYFEEYGKIDTIEIITDRQSGKKRGFGFVTFDD
HDPVDKIVLQKYHTINGHNAEVRKALSRQEMQEVQSSRSRGGNFGFGDSRGGGGNFGPGPGSNFRGGSDGYGSG
RGFGDGYNGYGGGPGGGNFGGSPGYGGGRGGYGGGGPGYGNQGGGYGGGYDNYGGGNYGSGNYNDFGNYNQQPSN
YGPMKSGNFGGSRNMGGPYGGGNYGPGGSGGSGGYGGRSRY

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FIGURE 2212

AGTAGCAGCAGCGCCGGGTCCCGTGCGGAGGTGCTCCTCGCAGAGTTGTTTCTCGAGCAGCGGCAGTTCTCACTA
CAGCGCCAGGACGAGTCCGGTTCGTGTTTCGTCCGCGGAGATCTCTCATCTCGCTCGGCTGCGGGAAATCGGGC
TGAAGCGACTGAGTCCGCGATGGAGAAAACCTTTAGAAACTGTTTCCTTTGGAGAGGAAAAAGAGAGAAAAGGAACA
GTTCCGTAAGCTCTTTATTGGTGGCTTAAGCTTTGAAACACAGAAGAAAGTTTGAGGAACTACTACGAACAATG
GGGAAAGCTTACAGACTGTGTGGTAATGAGGGATCCTGCAAGCAAAAGATCAAGAGGATTGGTTTTGTAACCTT
TTCATCCATGGCTGAGGTTGATGCTGCCATGGCTGCAAGACCTCATTCAATTGATGGGAGAGTAGTTGAGCCAAA
ACGTGCTGTAGCAAGAGAGGAATCTGGAAAACAGGGGCTCATGTAACCTGTGAAGAAGCTGTTTGTGGCGGAAT
TAAAGAAGATACTGAGGAACATCACCTTAGAGATTACTTTGAGGAATATGGAAAAATTGATACCATTGAGATAAT
TACTGATAGGCAGTCTGGAAAGAAAAGAGGCTTTGGCTTTGTTACTTTTGATGACCATGATCCTGTGGATAAAAT
CGTATTGCAGAAATACCATAACCATCAATGGTCATAATGCAGAAGTAAGAAAGGCTTTGTCTAGACAAGAAATGCA
GGAAGTTCAGAGTTCTAGGAGTGGAAAGAGGAGGCAACTTTGGCTTTGGGGATTACGTTGGTGGCGGTGGAAATTT
CGGACCAGGACCAGGAAGTAACCTTTAGAGGAGGATCTGATGGATATGGCAGTGGACGTGGATTGGGGATGGCTA
TAATGGGTATGGAGGAGGACCTGGATATGGCAACCAGGTGGGGGCTACGGAGGTGGTTATGACAACTATGGAGGAGGAAA
TTATGGAAGTGGAAATTACAATGATTTTGGAAATTATAACCAGCAACCTTCTAACTACGGTCCAATGAAGAGTGG
AACTTTGGTGGTAGCAGGAACATGGGGGGACCATATGGTGGAGGAACTATGGTCCAGGAGGCAGTGGAGGAAG
TGGGGGTTATGGTGGGAGGAGCCGATCTGAGCTTCTTCTATTTGCCATGGGCTTCACTGTATAAATAGGAGAG
GATGAGAGCCCAGAGGTAACAGAACAGCTTCAGGTTATCGAAATAACAATGTTAAGGAACTCTTATCTCAGTCA
TGCATAAATATGCAGTGATATGGCAGAAGACACCAGAGCAGATGCAGAGAGCCATTTTGTGAATGGATTGGATTA
TTTAATAACATTACCTTACTGTGGAGGAAGGATTGTAAAAAAAATGCCTTTGAGACAGTTTCTTAGCTTTTTAA
TTGTTGTTTCTTTCTAGTGGTCTTTGTAAGAGTGTAGAAGCATTCTTCTTTGATAATGTTAAATTTGTAAGTTT
CAGGTGACATGTGAAACCTTTTTTAAGATTTTTCTCAAAGTTTTGAAAAGCTATTAGCCAGGATCATGGTGTAAAT
AAGACATAACGTTTTTCTTTAAAAAAATTTAAGTGCGTGTGTAGAGTTAAGAAGCTGTTGTACATTTATGATTT
AATAAAATAATTCTAAAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2213

MEKTLETVPLEKKREKEQFRKLFIGGLSFETTEESLRNYEQWGKLTDCVVMRDPASKRSRGFGFVTFSSMAEV
DAAMAARPHSIDGRVVEPKRAVAREESGKPGAHVTVKKLFVGGIKEDTEEHHLRDYFEEYGKIDTIEIITDRQSG
KKRGFGFVTFDDHDPVDKIVLQKYHTINGHNAEVRKALSRQEMQEVQSSRSRGGNFGFGDSRGGGGNFGPGPGS
NFRGGSDGYSGRGFGDGYNGYGGGPGGGNFGGSPGYGGGRGGYGGGGPGYGNQGGGYGGGYDNYGGGNYGSGNY
NDFGNYNQQPSNYGPMKSGNFGGSRNMGGPYGGGNYGPGSGGSGGYGGRSRY

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FIGURE 2214

CGCTGAGGAGACTCCGGTCACTGTCCTCGCCCCGCTCCCCCTTCCCTCCCCTTGGGGACCACCGGGCGCCACGC
CGCGAACGTAATAGCTCTTCAAGTCTGCAATAAAAAATGGCCTCCAACAAAACCTACATTGCAAAAAATGGGAAAA
AAACAGAATGGAAAGAGTAAAAAAGTTGAAGAGGCAGAGCCTGAAGAATTTGTCGTGGAAAAAGTACTAGATCGA
CGTGTAGTGAATGGGAAAGTGGAAATATTTCTGAAGTGGGAGGGATTTACAGATGCTGACAATACTTGGGAACCT
GAAGAAAAATTTAGATTGTCCAGAATTGATTGAAGCGTTTCTTAACCTCTCAGAAAGCTGGCAAAGAAAAAGATGGT
ACAAAAAGAAAATCTTTATCTGACAGTGAATCTGATGACAGCAAATCAAAGAAGAAAAGAGATGCTGCTGACAAA
CCAAGAGGATTTGCCAGAGGTCTTGATCCTGAAAGAATAATTGGTGCCACAGACAGCAGTGGAGAATTGATGTTT
CTCATGAAATGGAAAGATTCAGATGAGGCAGACTTGGTGCTGGCGAAAGAGGCAAATATGAAGTGTCTCAAATT
GTAATTGCTTTTTATGAAGAGAGACTAACTTGGCATTCTTGTCAGAAGATGAAGCTCAATTAATTGTTTACATTG
TTCTTTTATATATATTTATATATATATATAAAAAATTGGGTCTTAGATTTTGATTACTAGTGTGACAAAATAACT
ACATCCTAATGAAAATCAAGTTTGATATGTTTGTGTTTGAAGTAGCGTTGGAAGAGTTGTTGGGGGTTTTTTCGA
TCCATAGCACTGGTTACTTTGAACAAATAAATAAAAGCTTTCTGTAGTTGCTTCCTTTATCAGAAAAGAACATTT
GATACCATGGTATATCATTTCCTCTTCATTAAGAAGCAGCTTTCTAAATGTTGGGGGAAATGTCCATAGTCATT
ACTCAGTCAAAAACCTTGTTCTCATGAGCCTAAGGACCATTCTAGATTTATTACGTGTTTTTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTATCCATAAAATGCATATGTAAATTTTTTTTGTGTTTTAAGCATTACCCAAACAAAA
AAATCACAGGTAAACCCATGTTTCTGAGATGCCATTATCCAAGCAAAATAAGAGATAATCCCTTCAAGTTAAAT
TGAAAATTTTCTGAAACCATAACATTTCAAGTGAAATAAGTAATTCTAGATAGGACAATTTAAATTGGATAATTT
TAAAGTGTCTATAATTGCAGTGGTTTATTTGCAAAATTCCTAAAAGGAAAAATTTATCACTGCCATCACAGCAG
GTTTCCTCATCCAGATGAGGAACTAGACAAATGCTAGTGTGTTTTAACTAGCTAAACAAAACCTAAGTTAAATGA
ACATTTAAAAGTTTCCCTAGCGGGCCATTCCCTTAGCAAAATGTTGGAATCCCTGTTGCTACATTGACTAAAAGGT
CATGATGAATGGAATATGTAAAGACTTGGCTCATAGAAACCTAATCAGATGGTTAGAGGTGTTGGCAGTTTAGGAC
CTGCTGTCATAAATGTGTGAACAACCTTTTGTAACTAACCTATTGACCTGCATGTTTTTCTTTACCCCAATTC
ATTACATGGAGGCTCAATCTTGAGTTTGCTTTACTGGTTTCAGCAAAAGCCAGGAAGAACAACCTTTGTAGTAATCA
AAATGTTATCCAACCTGTATATTGTTTACTTTATTGTAAATACTGGTGAACAGTGGTTAATAAATAGTTTTATATT
CCTTTATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2215

MASNKTTLQKMGGKQNGKSKKVVEEAPEEFVVEKVLDRRVNGKVEYFLKWKGFTDADNTWEPEENLDCPELIEA
FLNSQKAGKEKDGTKRKSLSDSESDDSKSKKKRDAADKPRGFARGLDPERIIGATDSSGELMFLMKWKDSDEADL
VLAKEANMKCPQIVIAFYEERLTWHSCPEDEAQ

TCCCCCGGCGGCCCGCCGCGCAGCTCCCGGCTCCCTCCCCCTTCGGATGTGGCTTGAGCTGTAGCGCGGGAGG
CCGGAGACGCTGCAGACCCGCGACCCGGAGCAGCTCGGAGGCGGTGAATAATAGCTCTTCAAGTCTGCAATAAAA
AATGGCCTCCAACAAAACTACATTGCAAAAAATGGGAAAAAAACAGAATGGAAAGAGTAAAAAGTTGAAGAGGC
AGAGCCTGAAGAATTTGTGCTGGAAAAAGTACTAGATCGACGTGTAGTGAATGGGAAAAGTGGAAATATTTCTGAA
GTGGAAGGGATTTACAGATGCTGACAATACTTGGGAACCTGAAGAAAATTTAGATTGTCCAGAATTGATTGAAGC
GTTTCTTAACCTCTCAGAAAGCTGGCAAAGAAAAAGATGGTACAAAAGAAAACTTTATCTGACAGTGAATCTGA
TGACAGCAAATCAAAGAAGAAAAGAGATGCTGCTGACAAACCAAGAGGATTTGCCAGAGGTCTTGATCCTGAAAG
AATAATTGGTGCCACAGACAGCAGTGGAGAATTGATGTTTCTCATGAAATGGAAAGATTAGATGAGGCAGACTT
GGTGCTGGCGAAAGAGGCCAAATATGAAGTGTCTCAAATTGTAATTGCTTTTTATGAAGAGAGACTAACTTGGCA
TTCTTGTCAGAAAGATGAAGCTCA**ATAAT**TGTTTCACATTGTTCTTTTATATATATTTATATATATATAAAAAAT
TGGGTCTTAGATTTTGATTTACTAGTGTGACAAAATAACTACATCCTAATGAAATCAAGTTTGATATGTTTGTT
TTGAAAGTAGCGTTGGAAGAGTTGTTGGGGGTTTTTGCATCCATAGCACTGGTTACTTTGAACAAATAAATAAA
AGCTTTCTGTAGTTGCTTCCTTTATCAGAAAAGAACATTTGATACCATGGTATATCATTTCCTCTTCATTAAAGA
ACAGCTTTTCTAAATGTTGGGGGAAATGTCCATAGTCATTACTCAGTCAAAACTTGTGTTCTCATGAGCCTAAGG
ACCATTCTAGATTTATTACGTGTTTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATCCATAAAATGCATAT
GTAAATTTTTTTTTGTTTTTAAGCATTACCCCAAACAAAAAATCACAGGTAAACCCCATGTTTCTGAGATGCCAT
TATCCAAGCAAAATAAGAGATAATCCCTTCAAGTTAAATTGAAAATTTTCTGAAACCATACATTTCAAGTGAA
ATAAGTAATTTCTAGATAGGACAATTTAAATTGGATAATTTTAAAGTGTCTATAATTGCAGTGGTTTATTTGCAA
ATTCTTAAAGGAAAAATTTTATCACTGCCATCACAGCAGGTTTCTCATCCAGATGAGGAACTAGACAAATGC
TAGTGTGTTTAACTAGCTAAACAAAAC**TAAGTTAA**TGAACATTTAAAGTTTCCCTAGCGGGCCATTCTTAG
CAAAATGTTTGAATCCCTGTGCTACATTGACTAAAAGGTCATGATGAATGGAATATGTAAGACTTGGCTCATAG
AAACCTAATCAGATGGTTAGAGGTTGTGGCAGTTTAGGACCTGCTGTCTGATGAATGTGTGAACAACCTTTTGTAAC
CTAACCTATTGACCTGCATGTTTTTTCTTACCCCAATTCATTACATGAGGCTCAATCTTGAGTTTGCTTTACT
GGTTCAGCAAAAGCCAGGAAGAACA**ACTTTG**TAGTAATCAAAATGTTATCCA**ACTGT**ATATTGTTTACTTTATTG
TAAATACTGGTGAACAGTGGTTAATAAAATAGTTTTATATTCCTTTAIGCAA

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FIGURE 2217

MASNKTTLQKMGKKQNGKSKKVEEAEPPEFVVEKVLDRRVVNGKVEYFLKWKGFTDADNTWEPEENLDCPELIEA
FLNSQKAGKEKDGTKRKSLSDSESDDSKSKKKRDAADKPRGFARGLDPERIIGATDSSGELMFLMKWKDSDEADL
VLAKEANMKCPQIVIAFYERLTWHSCPEDEAQ

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FIGURE 2218

GACGGCAAATGGCGGACTTCGACACCTACGACGATCAGGCCTACAGCAGCTTCGGCAGCGGCAGAGGGTCCCCGG
GCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATACGTAGGAA
ATCTACCTTTCAATACGGTTCGGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGTACGGCTAG
TCAGAGACAAAGACACAGATAAAATTTAAAGGATTCTGCTATGTAGAATTTCGATGAAGTGGATTCCCTTAAGGAAG
CCTTGACATACGATGGTGCACCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAAACAAGATA
AAGGTGGCTTTGGATTTCAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGACTTCTTAGGGGGCAGGGGAG
GTAGTCGCCCAGGCGACCGCGAACAGGCCCCCATGGGCAGCCGCTTCGGAGATGGCCCTCCCTCGGTGGAT
CCAACATGGATTTTCAGAGAACCCACAGAAGAGGAAAGCGCACAGAGACCACTCCAGCTTAAACCTCGAACAG
TCGCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGAGGAAGTTG
TTCAAAAGGAGCAAAAATGAGCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAGCCTGG
TGAGTCCCCGGGCAGCCGTCTTCGACCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCT
TGTGAGTGCATGTTCAGCTGTTAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTT
TGTCGCTTTTTTCTTTCTTCCGCTGCTTCCCCATTTTCTTCTGCTTTTTCTCCTGCTCCTTGTTTTCCAG
CAGCACACGGGGTTTCTCGGAGGAGCAGAGGTGCGCGCGTGGGGGGCGTTTGGGCTGCGGTGCTGCGTCATTT
TTCCTTTGCTTTCTTTTACTTTAGACACTGGCCCAACTCCAGGAGTTTCTTTTCACTCCCTCAGTGCCTTCTCTT
CTGACCTGCATGTTGAGTTCGTATTGCTGGGGCTTCCAACAAAACCAGAGTCACTGACAGAGGGAAGTGCAGA
GACCTTGTGGTATTTCAGCTGTGATGGATATAGAGAATCGGAGGCACCTTGTTTTCACTAGGATAAAAAATAT
CTGCAGGGTCCCTTTCCATTCTATTTAGAGGGAGTCTGGCTCCATGACCCCTCCCGAGTGGACTGTCCAAGCA
GATAGGCTCACACGAGAAACAGTGAGGCTGAAAGGGGGGGCCATGGAAGAGCGGTAGGGAGTCCACGGAGAAGAT
GCAGTGAATGCTTGCATGCATTCACACGTGTGTGTGTCCCAGCTAGTTCACTCCTTTCCGCGTGCGTGGTGGAGG
CTCGCCTCTCTGGCCGGGTGCAGTGAACGGCCAGCGGGTTTCTTTCTGCTGGGCCAAGGCGCTTTGGGGGTGGA
GGGGGTGGTGTGCTGGCGCTGCACTGGGCTGACTGCGGCGCTGACACAGCGTTTCCCCCATCCCTGTTGCCTGTGT
GTTGTGTGGATCTGTTTCTAGTATAGGCAACATAATGAGATACTGTGCTTCCCACCTCCCTTCAGTTTCAGAGCC
AAAATGGGTCTAGAATCTGGCACTTTACTCATTTCCTTTGATAAATTGACTGTGCAGAGCTGTGAGAACCTTC
AGATAGCAGTAGAGGACTGCAGCTGCCTAGGTCTGCGGCCACATCTTGGGGACACACTGGATTGTTCCCATGTGC
AGGGTTCAGCACTTACGTGGGAGTGTAGGGGTTAGGCTTTTGAGCTTGAACGCCTGCGTGTGAACAGATGAAAA
ATCCTTCAGTACCCAAGTCCCAGTCTGTCTATGGGGAGCAGTTTGGGGCGGCGGCAGCAGGAGCCTGGGAAA
GAGGCCCTCGCCAGGTGATGGCAGGGCCAGGTGGCTGGGGCACCAGCGGAATGTGCTTAGTATTTGGTCAAC
AGCCGTATCCTGGGCTTTTCTACTGTGTCTTGTACAAGGCCTCAGCAATCCACAGAACTCTCTCTCCTTCTT
TCCACCTGTCAGCTTCTCTGCTTCTGAGATAAGAACCATTGTGTAAACCAACACTTAACCTCAGAAAAGACATG
CATTATGTGGTGTAAATCAAACCCGAGGCTTTCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACA
AAACACATGCATCTAACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCCAAACACTTAACAC
ATTGAGCTATATGACAGAAAGTAAATCTATGGATATGCTATTTGTGAATGATCTTTTAAATAAAAGAAAACCTT
ACGTAATATTT

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FIGURE 2219

GGAGCGGAGACGGCAAATGGCGGACTTCGACACCTACGACGATCAGGCCTACAGCAGCTTCGGCAGCGGCAGAGG
GTCCCGCGGCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCCACAGAGCCCCCTACACAGCATA
CGTAGGAAATCTACCTTTCAATACGGTTCGGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGT
ACGGCTAGTCAGAGACAAAGACACAGATAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCT
TAAGGAAGCCTTGACATACGATGGTGCCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAA
ACAAGATAAAGGTGGCTTTGGATTTCAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGGCCCTCCCTCGG
TGGATCCAACATGGATTTTCAGAGAACCCACAGAAGAGGAAAGCGCACAGAGACCACGACTCCAGCTTAAACCTCG
AACAGTCGCGACGCCCTCAATCAAGTAGCCAATCCCACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGAGGA
AGTTGTTCAAAGGAGCAAAAATGAGCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAG
CCTGGTGAGTCCCCGGGCAGCCGTCCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACA
CAGCTTGTGAGTGCATGTCAGCTGTTAAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGC
CTGTTTGTGCGTTTTTTTCTTTCTTCCGCTGCTTCCCCATTTTCTTCCACCTGTCAGCTTCTCT

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FIGURE 2220

GGAGCGGAGACGGCAAATGGCGGACTTCGACACCTACGACGATCAGGCCTACAGCAGCTTCGGCAGCGGCAGAGG
GTCCCGCGGCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATA
CGTAGGAAATCTACCTTTCAATACGGTTCGGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGT
ACGGCTAGTCAGAGACAAAGACACAGATAAAATTTAAAGGATTCTGCTATGTAGAATTTCGATGAAGTGGATTCCCT
TAAGGAAGCCTTGACATACGATGGTGCCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAA
ACAAGATAAAGGTGGCTTTGGATTTCAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGACTTCTTAGGGGG
CAGGGGAGGTAGTCGCCCAGGCGACCGGCGAACAGGCCCCCATGGGCAGCCGCTTCGGAGATGGCCCTCCCT
CGGTGGATCCAACATGGATTTCAGAGAACCCACAGAAGAGGAAAGCGCACAGAGACCACGACTCCAGCTTAAACC
TCGAACAGTCGCGACGCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGA
GGAAGTTGTTCAAAAGGAGCAAAATTGAGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCAT
GTCAGCTGTTAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTTTGTGCGTTTTT
TTCTTTCTTCGCTGCTTCCCCATTTTCCTTC

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FIGURE 2221

MADFDTYDDQAYSSFGSGRSGRSAGGHGSRSQKELPTEPPYTAYVGNLPFNTVVRGDIDAIFKDLSIRSVRLVRD
KDTDKFKGFCYVEFDEVDSLKEALTYDGALLGDRSLRVDIAEGRKQDKGGFGFRKGGPDDRGFRDDFLGGRGGS
PGDRRTGPPMGSRFGDGPPLGGSNMDFREPTEEESAQRPRQLKPRTVATPLNQVANPNSAIFGGARPREEVVQK
EQK

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FIGURE 2222

CGCGTCAGGCCGCTCCTCTCGGCTCCGCGCTCCTTCCCTCGCGCTGGGCACCCGCCCCCGAGCGGTGAGAGCGC
GTGCGCGCGCGCCCTTCTCCGTGGGCGAGCCAGCCAGTCCCGCTGCACACGCTCGCAGTCTGTGGGCCCTCCGGG
AGGCGGCGGAGGTACCCGCGGGGAGAGGGCGGGCGCAGCATGGCAGCCTCCTTACGGCTCCTCGGAGCTGCCTC
CGGTCTCCGGTACTGGAGCCGGCGGGCTCGGCGCGCAGCCGGCAGCTTTGCAGCGGTGTGTTCTAGGTACAGTGGC
TTCAAAGACTCCAGTTGGATTCAATTGGACTGGGCAACATGGGGAATCCAATGGCAAAAAATCTCATGAAACATGG
CTATCCACTTATTATTTATGATGTGTTCCCTGATGCCTGCAAGAGATTTCAAGATGCAGGTGAACAGGTAGTATC
TTCCCCAGCAGATGTTGCTGAAAAAGCTGACAGAATTATTACAATGCTGCCACCAGTATCAATGCAATAGAAGC
TTATTCGGAGCAAATGGGATTCTAAAAAAGTGAAGAAGGGCTCATTATTAATAGATTCCAGCACTATTGATCC
TGCAGTTTCAAAGAATTGGCCAAAGAAGTTGAGAAAATGGGAGCAGTTTTTCATGGATGCCCTGTTTCTGGTGG
TGTAGGAGCTGCACGATCTGGGAACCTCACGTTTATGGTGGGAGGAGTTGAAGATGAATTTGCTGCTGCCCAAGA
GTTGCTGGGGTGATGGGCTCCAACGTGGTGTACTGTGGAGCTGTTGGGACTGGGCAGGCGGCAAGATCTGCAA
CAACATGCTGTTAGCTATTAGTATGATTGGAAGTCTGTAAGCTATGAATCTTGAATCAGGTTAGGGCTTGACCC
AAACTACTGGCTAAAACTCTAAATATGAGCTCAGGACGGTGTGGTCAAGTGACACTTATAATCCTGTACCTGG
AGTGATGGATGGCGTTCCCTCGGCTAATAACTATCAGGGTGGATTTGGAACAACACTCATGGCTAAGGATCTGGG
ATTGGCACAAGACTCTGCTACCAGCACAAAGAGCCCAATCCTTCTTGGCAGTCTGGCCCATCAGATCTACAGGAT
GATGTGTGCAAAGGGCTACTCAAAGAAAGACTTCTCATCCGTGTTCCAGTTCTACGAGAGGAGGAGACCTTCTG
AGTGTGCCCTTTGGCCACGGACACTGTTGGGAACCAAACTCTGTCTTGGAGCCTCCTTTTAGCTCACTCCACAAG
TAAATGGATTTAATCAAAGGTCACCTATCTGCTTTTGATTGTCTAGGTACAGTAATCCCTAGGATTTTTCACCG
CTTATTCTTTTGTCTTTTAAACAAACATATTATCCGAATTTTTTTCTGCAAGCCACTGATAGTCTCTGCTAAC
TAGCTTAATTGACCTTTTACAAAGTTTGATCCCCAAGCATCTCAACTAAATCATTGAATACTTCAATCAGGAT
ATTATCTGCTTTACTTTACAAATAAAACCAATCTTTTGTCACAGGATGAAACCCATCTTAAAGGAAAGAAAAG
GAATTGGTGTGAAGAGAGAAGTTAGAGAAGGGAAATGCAGTGAATTACTATCTGTGTCCATCAGGAAGTTTGTCC
TGTTAACCAATGGTTACTGCACTACCAGGGTTACTGGTTATTTTCCAGGGAGCTGATAAAGCAGGAGAACTGT
TGCTGCATGTTTTCTATTTGGACTCCGTCACAATATGGTAGGATATCCCTCACCAACTCCCGACACTCAGCAGAC
TTGTTTTTATATTTTTTCTTTCTTGTTCATTCTTACTACGTATTTTTTGACTTAAGAATGACATCTTTAGATGC
ATTCAGAGCCAATGATGATATTTGCTTTAGATAATTATTATATTATATAAATATAGCCATATTATTTTGAATT
CAAATAAATTTCTATACTGGT

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FIGURE 2223

MAASLRLLGAASGLRYWSRRLRPAAGSFAAVCSRSVASKTPVGFIGLGNMGNPMAKNLMKHGYPLIIYDVFPDAC
KEFQDAGEQVVSSPADVAEKADRIITMLPTSINAIEAYSGANGILKKVKKGSLLIDSSTIDPAVSKELAKEVEKM
GAVFMDAPVSGGVGAARSGNLTFMVGGVEDEFAAAQELLGCMGSNVVYCGAVGTGQAAKICNNMLLAISMIGTAE
AMNLGIRLGGLDPKLLAKILNMSSGRCWSSDTYNPVPVMDGVPSANNYQGGFGTTLMAKDLGLAQDSATSTKSPI
LLGSLAHQIYRMMCAKGYSKKDFS SVFQFLREEETF

GACGCAAGGCCTACTGTGCGCTGGGAGGGGAGGTGTAGCCGGTCTTTGGGGGTAGGCGGTAGTGGCGGAAGAGGT
 TCGGCGGCTGATGGCGGATCAGGATCGGAAGCCTGCGIAACTTTCTCCCTTGATCCGGGAGTCTTTCCACTGGAT
 TCACAAATGACATCCTTTCAAGAAGTCCCATTCGAGACTTCCAACCTTTGCCCATGTCATCTTTCAAATGTGGCCA
 AGAGTTACCTTCCTAATGCACACCTGGAATGTCATTACACCTTAACCTCCATATATTCATCCACATCCAAAAGATT
 GGGTTGGTATATTCAAGGTTGGATGGAGTACTGCTCGTGATTATTACACGTTTTTATGGTCCCCTATGCCTGAAC
 ATTATGTGGAAGGATCAACAGTCAATTGTGTACTAGCATTCCAAGGATATTACCTTCCAAATGATGATGGAGAAT
 TTTATCAGTTCTGTTACGTTACCCATAAGGGTGAAATTCGTGGAGCAAGTACACCTTTCCAGTTTCGAGCTTCT
 CTCCAGTTGAAGAGCTGCTTACTATGGAAGATGAAGGAAATTCGACATGTTAGTGGTGACCACAAAAGCAGGCC
 TTCTTGAGTTGAAAATTGAGAAAACCATGAAAGAAAAAGAAAGTCTTAAAGTTAATTGCCGTTCTGGAAAAAG
 AAACAGCACAACTTCGAGAAACAAGTTGGGAGAATGGAAGAGAACTTAACCATGAGAAAGAAAGATGTGACCAAC
 TGCAAGCAGAACAAAAGGGTCTTACTGAAGTAACACAAAGCTTAAAAATGGAAGTGAAGAGTTTAAAGAGAGGT
 TCAGTGATGCTACATCCAAAGCCCATCAGCTTGAGGAAGATATTGTGTCAGTAACACATAAAGCAATTGAAAAAG
 AAACCGAATTAGACAGTTTAAAGGACAACTCAAGAAGGCACAACATGAAGAGAACTTGAATGTCAGTTGA
 AGACAGAGAAGGATGAAAAGGAACCTTTATAAGGTACATTGAAGAATACAGAAATAGAAAATACCAAGCTTATGT
 CAGAGGTCCAGACTTTAAAAAATTTAGATGGGAACAAAGAAAGCGTGATTACTATTTCAAAGAAGAGATTGGCA
 GGCTGCAGTTATGTTTGCTGAAAAGGAAAATCTGCAAGAACTTTCTGCTTACAACCTCAAGTAAAGAAGATA
 CTTGTTTTTTTAAAGGAGCAACTTCGTAAAGCAGAGGAACAGGTTTCAGGCAACTCGGCAAGAAGTTGTCTTTCTGG
 CTAAGAAGTCAAGTGATGCTGTCAACGTACGAGACAGAACGATGGCAGACCTGCATACTGCACGCTTGGAAAACG
 AGAAAGTGAAAAGCAGTTAGCTGATGCAGTGGCAGAACTTAAACTAAATGCTATGAAAAAGATCAGGACAAGA
 CTGATACACTGGAACACGAACCTAAGAAGAGAAGTTGAAGATCTGAAACTCCGTCTTCAGATGGCTGCAGACCATT
 ATAAAGAAAAATTTAAGGAATGCCAAAGGCTCCAAAAACAAATAAACAACTTTCAGATCAATCAGCTAATAATA
 ATAAATGTCTTCACAAAGAAAACGGGGAATCAGCAGAAAGTGAATGATGCTTCAGTAAACACAGACCCAGCCACTT
 CTGCCTCTACTGTAGATGTAAAGCCATCACCTTCTGCAGCAGAGGCAGATTTTGACATAGTAACAAAGGGGCAAG
 TCTGTGAAATGACCAAAGAAATTTGCTGACAAAACAGAAAAGTATAATAAATGTAAACAACCTCTTCGAGGATGAGA
 AAGCAAAATGCAATAAATATGCTGATGAACTTGCAAAAATGGAGCTGAAATGGAAAGAACAGTGAAAATTTGCTG
 AAAATGTAAACTTTGAACTAGCTGAAGTACAGGACAATTATAAAGAACTTAAAGGAGTCTAGAAAATCCAGCAG
 AAAGGAAAAATGGAAGGTGAGAATTTCCAGAGTCTCAATGTTTCAAAACATGCTCAGAGCAAAATGGTTATGTTT
 TCACATTGTCAATGCACAACCAGTTCTGCAATATGGTAATCCTTATGCATCTCAGGAAACAAGAGATGGAGCAG
 ATGGTGCTTTTTTACCAGATGAAATACAAAGGCCACCTGTGAGAGTCCCCCTTGGGGACTGGAAGACAATGTTG
 TCTGCAGCCAGCTGCTCGAACTTTAGTGGGCTGATGGCTTAGAGGACTCTGAGGATAGCAAAGAAGATGAGA
 ATGTGCCTACTGCTCCTGATCCTCCAAGTCAACATTTACGTGGGCATGGGACAGGCTTTTGCTTTGATTCCAGCT
 TTGATGTTTACAAGAAGTGTCCTCTGTGAGTTAATGTTTCTCCTAACTATGATCAGAGCAAAATTTGAAGAAC
 ATGTTGAAAGTCACTGGAAGGTGTGCCCAGATGTGCAGCGAGCAGTTCCCTCCTGACTATGACCAGCAGGTGTTTG
 AAAGGCATGTGCAGACCCATTTTGATCAGAATGTTCTAAATTTTGACTAGTTACTTTTTATTATGAGTTAATATA
 GTTTAGCAGTAAAAAATAAAAAAACCACACCTAAAAATAGACCACTGAGGAGACCATAGAGCGGATGCTTTCA
 TGCACCTTTTACTGCACCTTTCTGACCAGGAGTACTTTGAGTTTGGTGTTACTAGGATCAGGGTCAGTCTTTGGC
 TTATCAATAAAATTTAATCTCTGTAACTTACCTGCTTTAAAAAAGTCTTGTGTGTTCTGTATCTTTATTTA
 TTCCCTAGTTTGCAGAACTGTCTGAATAAAGGATACAAGGATTATTTCAATGTTACTGCACTGAAAAACGTGTAT
 GTATTAGTGTCTAGATTATTTAGCAGAATATTCACAAGTTTCTGTTGACCTTGTTGATTGAGCATGACTACTAA
 ATATTATGTAATAAAAAGCATTGTGCATAAC

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FIGURE 2225

ATGGAGAAGCAGAGAGGGAAGTGCAGAGACAGGTCACCCAGGCGCCTGGAAACTGCCTCTATGGCCTTCACGGGA
AACGGCCTCTTTCTACTCCGGATCCCAGACTGTGTTTCTTTGAAACTGACCGTCAGAGGAGAGCGGCTGGAGGCG
GACAGACGTCTGCAGTGGGAGGCGCTCCAGGCGTTCCAGGCAGTGTCCTGCCGGCGAGTCACCCGCGACCGCGAG
TCACCTCACCAGCCCTGAATTGGGACAGGAGACGAGACGTGTCGACGAGCTGCGGAGTTCCTCGCTTCTCTGGG
CCCTGCCAGCTCACAGCCAAGGTGCACCAGAGCCTCCGTCACCGCCCCTACAGAGCACGTACTTTTATCACACGA
ACTATGACTCAGACACCACAAACCCAGACCAGGCCTCCAGGTCAGAAGTTGACTCCCCTGAGGCCTGTGGTAGGA
GAATGTGGTCTGGAAAATGAGGTGTCACTGGTGATCAGACATCATCACTTTTCTAGTGACTGTCAGCTTAGTTTT
GTCCTACAGTTGTCTTGA

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FIGURE 2226A

CCCCGACTAGCCCGACAGTCCCCGACTAGCCCGACAGCCCCAGCAGGATCTGCATCGTTCATCGAGCCGGCCCCAGC
TTCTGAAGGGAGATGTCTATGGTGAAATGCTACCAACAAGAAATACCGCTCGGCCACCCGTGACGTCAATTTTCCGCC
TGCAGTTTACACTGGGGCTGTGCAGGGCTACGGGCTGGTGTGTTGGGAAGGAGGATCTGGACAATGCCAGCAAAG
ATGACCGTTTTCTGACTATGGGAAGGTTGAATTAGTCTTCTCTGCCACGCCTGAGAAGATTCAAGGGTCCGAAC
ACTTGTACAACGACCACGGTGTGATTGTGGACTACAACACAACAGACCCACTGATACGCTGGGACTCGTACGAGA
ACCTCAGTGCAGATGGAGAAGTGCTACACACGCAGGGCCCTGTGATGGCAGCCTTTACGCGAAGGTGAGGAAGA
AAAGCTCCTCGGATCCTGGCATCCCAGGTGGCCCCCAGGCAATCCCGGCCACCAACAGCCCAGACCACAGTGACC
ACACCTTGCTGTGTCAGCAGTGACTCCGGCCACTCTACAGCCTCTGCCAGGACGGATAAGACGGAAGAGCGCCTGG
CCCCAGGAACCAGGAGGGGCTGAGTGCCAGGAGAAGGCAGAGTTGGACCAGCTGCTCAGTGGCTTTGGCCTGG
AAGATCCTGGAAGCTCCCTCAAGGAAATGACTGATGCTCGAAGCAAGTACAGTGGGACCCGCCACGTGGTGCCAG
CCCAGGTTACAGTGAATGGAGACGCTGCTCTGAAGGATCGGGAGACAGACATTCTGGATGACGAGATGCCCCACC
ACGACCTGCACAGTGTGGACAGCCTTGGGACCCCTGTCTCTCGGAAGGGCCTCAGTGGGCCACCTGGGTCCCT
TCACCTGCCACAAGAGCAGCCAGAACTCACTCCTATCTGACGGTTTTTGGCAGCAACGTTGGTGAAGATCCGCAGG
GCACCTCGTTCCGGACCTGGGCCTTGGCATGGACGGCCCCATAGAGCGGGAGCGGACTTTTGGGAGTCGAGAGC
CCAAGCAGCCCCAGCCCCGTGTGAGAAAGCCCTCAGTGTCCGCCCAGATGCAGGCCTATGGGCAGAGCAGTACT
CCACACAGACCTGGGTGCGCCAGCAGAGATGGTTGTAGCTACCAAGTATAGCTTCGCCCCAGATGGGGAGGCC
GGCTGGTGAGCCGCTGCCCCGTCAGACAATCCTGGCCTCGTCCAGGCCCAGCCCAGAGTGCCACTCACCCCCACCC
GAGGGACACAGCAGTAGGGTGGCTGTCCAGAGGGGTGTAGGCAGTGGGCCACATCCCCCTGACACACAGCAGCCCT
CTCCCAGCAAAGCGTTCAAACCCAGGTTTTCCAGGAGACCAGGTTGTGAATGGAGCCGGCCAGAGCTGAGCACAG
GCCCCCTCCCAGGCTCGCCCCACCTGGACATCGACCAGTCCATCGAGCAGCTCAACAGGCTGATCCTGGAGCTGG
ATCCCACCTTCGAGCCCATCCCTACCCACATGAACGCCCTCGGTAGCCAGGCCAATGGCTCTGTGTCTCCAGACA
GCGTGGGAGGTGGGCTCCGGGCAAGCAGCAGGCTGCCTGACACAGGAGAGGGCCCCAGCAGGGCCACCGGGCGGC
AAGGCTCCTCTGCTGAACAGCCCCCTGGGCGGGAGACTCAGGAAGCTGAGCCTGGGGCAGTACGACAACGATGCTG
GGGGCAGCTGCCCTTCTCAAATGTGCATGGGGAAGGCTGGTGTGGACTATGCCCCAAACCTGCCGCCATTCC
CCTCACCAGCGGACGTCAAAGAGACGATGACCCCTGGCTATCCCCAGGACCTCGATATTATCGATGGCAGAATTT
TAAGTAGCAAGGAGTCCATGTGTTCAACTCCAGCATTTCCTGTGTCTCCAGAGACACCGTATGTGAAAACAGCGC
TGCGCCATCCTCCGTTACGCCCACCTGAGCCCCCGCTGAGCAGCCAGCCAGTCAGCACAAAGGAGGACGTGAAC
CACGAAGCTGCCCTGAGACGCTCACTCACGCTGTGGGATGTGAGAGAGCCCCATCGGACCCAAATCCACGATGC
TCCGGGCTGATGCGTCTCGACGCCCTCCTTTCAGCAGGCTTTTGCTTCTTCTGACCATTTCCAGCAACGGCC
CTGGGCAGAGGAGAGAGAGCTCCTCTTCTGCAAGCCAGTGGGTGGAGAGCAGCCCCAAGCCCATGGTTTCCC
TGCTGGGGAGCGGGCCGCCCCACCGGAAGTCCCCTCAGCGCTGAGTTCTCCGTACCAGGAAGGACTCCCCAGTGC
TGCTCTGCTTCCCGCGTCAAGCTCCAGGCTCCTTTCACAGCCATGAGCTGTCCCTAGCAGAGCCACCGGACT
CCCTGGCGCCTCCAGCAGCCAGGCCTTCTGGGCTTCGGCACCGCCCCAGTGGGAAGTGGCCTTCCGCCCGAGG
AGGACCTGGGGGCTTGTGTCCTGTCCTTCTCATGGAGCGTCACCGACCCCCAGCATCCCGCTGACAGCGACAGGGG
CTGCCGACAATGGCTTCTGTCTCCACAACCTTCTCACGCTGGCGCTGGACACAGCAGCCACCACAGTCCAGGCC
TGCAGGGCCAGGGTGTGACCTGCCCCGGCAGCCACCCCTCCCTGAGAAGAAGCGGGCCTCGAGGGGGATCGTT
CTTGGGCTCAGTCTCTCCCTCCTCCAGTGGCTTCTCCAGCCCGCACAGCGGGAGCACCATCAGTATCCCTTCC
CAAATGTCCTTCCCGACTTTTCCAAGGCTTCAGAAGCGGCTCACCTCTGCCAGATAGTCCAGGTGATAAATTG
TGATCGTGAAATTTGTCAAGACACTTCCAAGTTCTGGTACAAGGCGGATATTTCAAGAGAACAGCCATCGCCA
TGTTGAAGGACAAGGAGCCGGGCTCATTCAATTGTTGAGACAGCCATTCTTCCGAGGGGCTATGGCCTGGCCA
TGAAGGTGGCCACGCCCCACCTTCAGTCTGCAGCTGAACAAGAAAGCTGGAGATTGGCCAATGAACCTCGTCC
GGCACTTTTTGTATCGAGTGTACCCCGAAGGGAGTGGGTTGAAAGGGTGTGCAATGAACCATATTTCCGGAGCC
TGACGGCCTTGGTGTGCCAGCATTCATCACGCCCTTGGCCTTGGCGTGAAGCTGCTTATCCAGAGAGAGATC
CATTGGAGGAAATAGCAGAAAGTTCTCCCCAGACGGCAGCCAATTACAGCAGCTGAGCTGTTGAAGCAGGGGGCAG
CCTGCAACGTGTGGTACTTGAACCTCTGTGGAGATGGAGTCCCTCACCGGCCACAGGCGATCCAGAAGGCCCTGA
GCATCACCTGGTCCAGGAGCCTCCACCTGTGTCCACAGTTGTGCACTTCAAGGTGTGAGCCAGGGCATCACCC
TGACAGACAATCAGAGGAAGCTCTTCTTCCGGAGGCATTACCCCGTGAACAGTGTGATTTTCTGTGCCTTGGACC
CAAGACAGGAAGTGGATCAAAGATGGCCCTTCTCAAAGTCTTTGGATTGTGGCCCGGAAGCAGGGCAGT

FIGURE 2226B

[illegible]

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FIGURE 2227

MVKCYHKKYRSATRDVIFRLQFHTGAVQGYGLVFGKEDLDNASKDDRFPDYGKVELVFSATPEKIQGSEHLYNDH
GVIVDYNTTDPLIRWDSYENLSADGEVLHTQGPDVGSLEYAKVRKKSSSDPGIPGGPQAIPATNSPDHSDHTLSVS
SDSGHSTASARTDKTEERLAPGTRRGLSAQEKAELDQLLSGFGLEDPGSSLKEMTDARSKYSGTRHVVAQVHVN
GDAALKDRETDILDDEMPHDLHSVDSLGLTLSSSEGPQSAHLGPFTCHKSSQNSLLSDGFGSNVGEDPQGTLPD
LGLGMDGPYERERTFGSREPKQPQLLRKPSVSAQMQAYGQSSYSTQTWVRQQQMVAHQYSFAPDGEARLVSR
PADNPGILVQAQPRVPLTPTRGTSSRVAVQRGVSGPHPPDTQQPSPSKAFKPRFPGDQVVNGAGPELSTGSPSGS
PTLDIDQSIEQLNRLILELDPTFEPIPTHMNALGSQANGSVSPDSVGGGLRASSRLPDTGEGPSRATGRQGSSAE
QPLGGRLRKLKSLGQYDNDAGGQLPFSKCAWGKAGVDYAPNLPPFPSPADVKETMTPGYPDLDIIDGRILSSKES
MCSTPAFPVSPETPYVKIALRHPPFSPEPPLSSPASQHKGREPRSCPETLTHAVGMSESPIGPKSTMLRADAS
STPSFQQAFASSCTISSNGPGQRRESSSSAERQWVESSPKPMVSLGSGRPTGSPLSAEFSGTRKDSPVLSCFPP
SELQAPFHSHELSLAEPDPSLAPPSSQAFLGFGTAPVSGSLPPEEDLGALLANSHGASPTPSIPLTATGAADNGF
LSHNFLTIVAPGHSSHHSPGLQGQGVTLPGQPPLPEKKRASEGDRSLGSPSSSGFSSPHSGSTISIPFPNVLPD
FSKASEAASPLPDSPGDKLVIVKFVQDTSKFWYKADISREQAIAMLKDKKEPGSFIVRDSHSFRGAYGLAMKVATP
PPSVLQLNKKAGDLANELVRHFLIECTPKGVRLKGCSNEPYFGSLTALVCQHSITPLALPCKLLIPERDPLEEIA
ESSPQTAANSAAELLKQGAACNVWYLSNVEMESLTGHQAIQKALSITLVQEPVPVSTVVHFKVSAQGITLTDNQR
KLFFRRHYPVNSVIFCALDPQDRKWKIDGPPSSKVFVGFVARKQGSATDNVCHLFAEHDPEQPASAIVNFVSKVMIG
SPKKV

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FIGURE 2228

GGCACGAGGCACAGCTTCGCGCCGTGTACTGTCGCCCCATCCCTGCGCGCCAGCCTGCCAAGCAGCGTGCCCCG
GTTGCAGGCGTCAATGCAGCGGGCGCGACCCACGCTCTGGGCGCGCTGCGCTGACTCTGCTGGTGTCTCCGCGGG
CCGCCGCTGCGCGGGGCTGGCGCGAGCTCGGGGGGCTTGGGTCCCGTGGTGCCTGCGAGCCGTGCGACGCGCGT
GCACTGGCCCACTGCGCGCCTCCGCCCGCCGTGTGCGCGGAGCTGGTGCAGCGAGCCGGGCTGCGGCTGTCTGCTG
ACGTGCGCACTGAGCGAGGGCCAGCCGTGCGGCATCTACACCGAGCGCTGTGGCTCCGGCCTTCGCTGCCAGCCG
TCGCCCCGACGAGGCGCGACCGCTGCAGGCGCTGTGACGGCCGCGGGCTCTGCGTCAACGCTAGTGCCGTGAGC
CGCCTGCGCGCTACCTGTGTCAGCGCGCCAGCTCCAGGAAATGCTAGTGAGTCGGAGGAAGACCGCAGCGCC
GGCAGTGTGGAGAGCCCGTCCGTCTCCAGCACGCACCGGGTGTCTGATCCCAAGTTCCACCCCTCCATTCAAAG
ATAATCATCATCAAGAAAGGGCATGCTAAAGACAGCCAGCGCTACAAAGTTGACTACGAGTCTCAGAGCACAGAT
ACCCAGAACTTCTCCTCCGAGTCCAAGCGGGAGACAGAATATGGTCCCTGCCGTAGAGAAATGGAAGACACACTG
AATCACCTGAAGTTCTCAATGTGTGAGTCCAGGGGTGTACACATTCCCAACTGTGACAAGAAGGGATTAT
AAGAAAAAGCAGTGTGCGCCTTCCAAAGGCAGGAAGCGGGGCTTCTGCTGGTGTGTGGATAAGTATGGGCAGCCT
CTCCCAGGCTACACCACCAAGGGGAAGGAGGACGTGCACTGTACAGCATGCAGAGCAAGTAGACGCGCTGCCGCA
AGGTAAATGTGGAGCTCAAATATGCCTTATTTTGACAAAAGACTGCCAAGGACATGACCAGCAGCTGGCTACAG
CCTCGATTATATTTCTGTTTGTGGTGAATGATTTTTTTTAAACCAAAGTTTAGAAAAGAGGTTTTTGAAATGCC
TATGGTTTCTTTGAATGGTAAACTTGAGCATCTTTTCACTTCCAGTAGTCAGCAAAGAGCAGTTTGAATTTCT
TGTCGCTTCTATCAAAATATTAGAGACTCGAGCACAGCACCAGACTTCATGCGCCCGTGGAATGCTCACCAC
ATGTTGGTCGAAGCGGCCGACCACTGACTTTGTGACTTAGGCGGCTGTGTTGCCTATGTAGAGAACAGCTTCAC
CCCCACTCCCCGTACAGTGCACAGGCTTTATCGAGAATAGGAAAACCTTTAAACCCCGGTATCCGGACATCC
CAACGCATGCTCCTGGAGCTCACAGCCTTCTGTGGTGTCAATTTCTGAAACAAGGGCGTGGATCCCTCAACCAAGA
AGAATGTTTATGTCTTCAAGTGACCTGTACTGCTTGGGGACTATTGGAGAAAATAAGGTGGAGTCTACTTGT
AAAAAATATGTATCTAAGAAATGTTCTAGGGCACTCTGGGAACCTATAAAGGCAGGTATTTGCGGCCCTCCTCTC
AGGAATCTTCCTGAAGACATGGCCCAGTCGAAGGCCAGGATGGCTTTTGCTGCGGCCCGTGCGGTAGGAGGGA
CAGAGAGACAGGGAGAGTCAGCCTCCACATTAGAGGCATCACAAGTAATGTCACAATTCTTCGGATGACTGCAG
AAAATAGTGTGTTTGTAGTTCAACAACTCAAGACGAAGCTTATTTCTGAGGATAAGCTCTTTAAAGGCAAAGCTTT
ATTTTCATCTCTCATCTTTTGTCTCCTTAGCACAATGTAAAAAGAATAGTAATATCAGAACAGGAAGGAGGAA
TGGCTTGCTGGGGAGCCCATCCAGGACACTGGGAGCACATAGAGATTCACCCATGTTTGTGTAACATTGTATACAACATAGC
CCCAAATATAGTAAGATCTATACTAGATAATCCTAGATGAAATGTTAGAGATGCTATTTGATACAACATGTGGCCA
TGACTGAGGAAAGGAGCTCACGCCAGAGACTGGGCTGCTCTCCCGGAGGCCAAACCAAGAAGGTCTGGCAAAG
TCAGGCTCAGGGAGACTCTGCCCTGCTGCAGACCTCGGTGTGGACACACGCTGCATAGAGCTCTCCTTGAAAACA
GAGGGGTCTCAAGACATTCTGCCTACCTATTAGCTTTTCTTTATTTTTTAACTTTTGGGGGGAAAAGTATTTT
TGAGAAGTTTGTCTTGCAATGTATTTATAAATAGTAAATAAAGTTTTTACCATTAAAAAATAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2229

MQRARPTLWAAALTLVLLRGPPVARAGASSGGLGPVVRCEPCDARALAQCAPPPAVCAELVREPGCGCCLTCAL
SEGQPCGIYTERCGSGLRCQSPDEARPLQALLDGRGLCVNASAVSRLRAYLLPAPPAPGNASESEEDRSAGSVE
SPSVSSTHRVSDPKFHLHSKIIIIKKGHAKDSQRYKVDYESQSTDTONFSSESKRETEYGPCRREMEDTLNHLK
FLNVLSPRGVHIPNCDKKGFYKKKQCRPSKGRKRGFWCVDKYGQPLPGYTTKGKEDVHCYSMQSK

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FIGURE 2230A

GCGGGTGTTTCGCTACGTCACTGGGGCGCTACAGTACCTGGAGCTGGGCAGTCTTCTCATCAGAGTGGGGACTAA
TAACAGTGACCTCCCCGCCAGGTCTGTGTGTGTCGGGCTGAAGAAGGATGATGATTATCCCCACCTTCTGAGA
GACAAAGACCAACGAGCCACCACAGCCACCAGTCCCAGAACCCGCCAATGCTGGGGAACGGAAAATGAGGGAGTT
CAACTCTGGCCCTCACAATCCAGTGGAGGAGACGAAACTCATCTGCCTCTGTCCCTCTGGGCACGCTTTCATGCCA
GGTGCATCTGTGGACAGGGGCCATGCTCCTGGGCTTCCAAAGTTGGAGAAAGCTGCCAGGCTCAGAGCCACCTAA
GCTGAAGATTCCCTTGAGAACAAGTACTGTCTGTGGTTTCATGGCCTTCTTCCATTTGTGGTTCTTGTGAAGT
GGAATTTAAATGACATCTTATCAAGATGGATAAACCTAGTTTCCAGTGCTGGAATATAGAAAATGGATGGACA
AGTAAATCCCACCTCATCACCCATAGTCCAGGCATGGGGACCTCAACACACCTGAGCCCCAGACATCACCTTTCAT
TCTGGACCTACCATGAAAGACTTCTGAATCCAGGAAGAGAGACTGACTGGGCAACATGTTGTTCAGAAACAGGAC
CTTGCCCTGTCTATTAGGATGGAGTTCAGTGGTCCAATCATGGCTCATTGTAGCCTCAAACCTCCAGGCTCAAGC
AATCCTACCATGTGACGCTTCCCAGTAGCTGGGACTACAGCTGGATCTACCATGAAAGACTTCTGAATCCAGGAA
GAGAGACTGACTGGGCAACATGTTATTACAGGGTCTCCCTCTCTTGTCCAAGGCTGGAGTGTAGTAGTGCTATCAC
AGCTGACTGCAGCCTCAACCTTCCAGGCTGAAGCGATCCTCCCATCTCAACCTCCCACGTGGCTGAGACTATAGG
TGCTTGCCACTATGCCCAACTAATATTTGGAATTTTCTATACGTGGATTCCAGAGGGGTGACAGCGAAACGTGA
GACCATCCAGTTGCAGAAAAACAAGCTTAACACGCCCCACTGATTCTACATTATGCCCCCTACCTCCCGGCAGCCTC
TCCAGGCCCAGAACTTCTCCAGTCAAGCTCCACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCAT
CCCTACCTCACGGCAGTCTCTGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCACCGTTAC
AATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAGCTTCTCAAGTCGACCTCACC
AGGCCCAGCTCATGCTTCTTGGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGCAGCCTCTCCAGGCCCAGCCT
CTGCCTCCTGTGAGCCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTCCAGGCCCAGTATCTGCCTCACTG
TGGACCACCCAAGCCAAGCTCCCAACCTTTCAGCAGCTTCTACACACCAGCTCCTGCCACCCAGTGGCCTCTTT
AGGCCAAGCTCATGCCTCACAAGGGCCTTTCAGGCCCACTTTTGTCTCATGGCAACCTTCCCTGGCCACATTC
CTGCCTGTCTCCAGCAGCCTAGACAGGCCCAGGTCTTGCTCACACTGGCTGTCTACATCCAGCTCTTGCTC
ACGGTGGCCTCTCCAGGCCCAGCTCCTGTCCAGGACGTCTATCTCCAGGCCCAAACTTCTCAAGTCAGCCTCT
CTAGTCCCAACTGCTGCCTCCTGGTGGCCTATGAAGGCCCAAAATCTCCTCAAGTTGACCTCTCCAGGCCCAGCT
CCTGCCTCCTGTGACGCTCTACAGGCCCAACCTCTGCCTCATGGGGGCTTCTCCAGGCCCAGCTCTTCTCTGGG
CTGAGTCTACAGGCACAAGTGTGCTCACAACAGCCTTTTTTGGCCAGTTCTGTTCAGCTCACAGCGACCAA
TGTAGGCCCAAACTTCTCAAGTCAAACCTCTCCAGGCTGCCTTCTTCTGGTGGCATGAACAGGCCCAGCTTT
GACTTGAGAACAGCCTCTGCAGGCCCTGCTCTTGCTCCAGGGGCTTCTCCAGGCCCAGCTCTTGCTCATGGC
GGCTGCCCCAGGCCAAGTTCTGCCTGCCTGCCAGCAGCCTCAACAGGCACAGCTCTTCCCTCACAGTGGCCCAT
TTAGGCCCAACTCATGACTGTGCGGCCATTTCAGGCCTAGTGCCTGCCTCCTGGCTGACTCTTGAAGCCCAAA
CTTCTCAAAATCAGCCTTTTGCCCAACTTCTGTCTACTGTGCGACTCTACAGGCCAGCCTCTGCCTCACAGTGA
CCCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCAGCAGCCTCTACGGGCC
CAGCTCCTGCCTTGCAATGGCCTCTTTAGGCCAAGCTCATGCCCCACGGCGACTTTTCCAGGCACAGCTTTTGCC
TTTTGCAGCCTGTCCAGGCCCAGAATGTCTTAAGTCCGGCTCTCCAGGACGAGCTCATCCTCCAGTGCCTCTA
CAGGCCCGTCTCCTGCCTCACAACAACCTCCTTGGTCCAACCTCCTGCTGAGCTGCTTGGCAGCCTCTGTAGGCC
ACAGAGTTCTTAAAGTAAAGCTTTCCAGGCCACCTTCGGCTCCCGGCAGCCTCAGCAATCAAACCTATTCCCTC
ACTGCGGCCACCGAAAGCCAAGTTTCTCCCTGCCTCACAGCATCCTCCGAAACTGAGCATTGTGCTCACGGTGG
CCTCCCGAGGCCACGAATCTGCCTGCCTCCAGGCAGCTGCTGCCTCACAATGGTCTCTTTAGGCCCAGCTCTTG
CTAAAAGACAGACTCTCCAGGCACAGCTCTTGCTCCTGGCAGGCTCTGCAGGCCCAAAATCTCCAAAAGTTGGC
CTCTCCTAACTCAGCTCCTGCCTCATGTGCGCTACACAGGCCCAGACTCTTACCACACAGTAGACCTCCAGGC
CCACCACTTGCTGAGCATAGCCTCCTAAGGCCAAGCTCCTGCCTTTTGGCAGCCTCTACAGGCCCAGCTCCTGC
CTCGCAATTGCCTTTGTAGGCCAAGATCATGCCGCGAAGTGGCCTTTCTAGCCTAACTTTTGCTTTTTGACGCA
TACTCCGGTCCCAAACTTCTCCAGTCAGCCAGTCCAGGCCAAGCTCTTCTCCCAAAGGCTTCTGCAGGCCAA
AATCGTCTGAAGTCACCTCTGCAGGCCCAGCTCCTGCCTCCAAGTGTGTGTAGGCCAAGCTAATGCCTCACA
GCACACTTTCCAGGCTGAGCATTTCTTTTTGTGATCCTCTCCAAGCCCTGAACCTTACTCCAGTTGGCTCTCCA
GACCAAGCTCTCCCTCCAGTGGCCTCTACAGGCCCAAAATGTCTCAAGTCAGCCTCTCCAGGGCCAACTCCTA
GCTACCGGTGGCTTCTGCAGGCCAAATCGACCTCAAGTCAGCCTCTTACACCCAGCTCTTGTCTGTAAGTGGC

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FIGURE 2230B

CTCTGCAGGAGCAAACTGCCTCAAGTCGGCCTCTCCAGGCCAGCCTCCTGCTTCCCGAGGGCATGTACAGGCC
CAGCCTCTGCCTCACAGCAGACTCTCCATGCCAGCTCTTCCCTGTCTGCTGCCTCTCCAGTCCAAAGCTGCGCC
TGCCTTTCGGCAACTTGTACGGGCCCAGCTCCTCCCTCACGGTGGCCTCTTTTCGCCCAACTCATGCCCTCTTGCA
ACCTGCCCAAGTGTACAGCTCCTGCCTCACACTGGCCTCTTGAGGCTCAGCTCATGCCCTCTCGTGGCCTCAACGGG
CCCAGCCCCCTGCCTGTGCGGCGCCTCTACAGGCCAGCCTCTACCTCACAGTGGGCTCTCCAGGCCACCTCTTT
CTCACCGTGGCCTCTCGGGCAATGCTCCCCGCTCTCGGGAGCCTCTGCGGGCCCAGCTCCTGCCTCCCAGTGGC
CTCTGTAGGCCAAGCCCGTGCCTCAGGGCAGCCTTTCCAGGCCAGCGTTTGCTGCTTTGCATCCTCTCCAGGCT
CTGGACTTCTCCAGTGGCCTCTCCAGGCCAGCTCTTCTCCCGCGGCCTCTGCAGGCCAGACTGTTGTCA
AGTCGGCCTGTCCAGGGCCAGCTCCTGCCTCCCGGTGCCCTCTGCAGGCCAAGTCGTCCTCAAGTCGGCCTCCC
CAGGCCAGCTCCGGCCTCTCGGCGGCCGCTCCAGGTGCAAAAGTTCTCGAGTCAGCCTCTCCAGGCCAGCTC
CTCCTGCCTCCCAGCGGCCTCTTTTCGGCCCAGCCCAGCTCATGCCCTCCCGGCTGCGTCTCTAGGCCGACTCCGG
CCTCCCAACAACCTCTTTGGACTCAGCTCCTGCCTCTCGAAGGCCTGCACGGGCCAGCCTCAGCCTCACAGCGG
ACTCTCCACGCCAGCTAGCTCTCGCCTCACTGCGGCCTCCCGAGTCGAAAGCTCCTGCCTTTCGGCCGCTTTGG
CAGGCCAGCTCCTGCCTGCCAGTGGCCTCTTTAGGCCAGCTCATTCCTCACAACGGCCTTCCAGGCCCGTT
TTCCCTTCCGGCAGCCTTTTGGCCTCTAATTTGTTTATCTTTTGTGTATAAATCCAAAATATGGAATTTGGA
ATATTGCTACCAT

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FIGURE 2231

MLLPPGSLSRPRTFSSQPLQTKLMTHNGLFRPIPYLTAVSADEPTASQQPPQQLHRYNGLFRPSSCLPAFSPGP
ELSQVDLTRPSSCFFAASPGPAPASWWPLQAQPLPPVGLYSPNICLTADSSGPFASASLWTPQAKLPTFQQLLHTQ
LLPPSGLSRPSSCFTRAFAGPTFVSWQPSLARFLLVSQQPRQAQVLPHTGLSTSSSCLTLASPGPTPVPGRHLRA
QNLLKSDSLVPTAAFWWPMKAQNLLKLTSPGPAPASCQHLQAQPLPHGVFSRPTSSSWLGLQAQLLPHNSLFWPS
SCPAHGGQCRPKTSSSQTLQAHLLLPGGMNRPSFDLRTASAGPALASQGLFPGPALASWQLPEAKFLLACQQPQQ
AQLLPHSGPFSPNS

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FIGURE 2232A

GGGAAGCGCGCCGCGCACCTCATGGTTCCGGGGACAGTTAGGGCGGGCGGATGGAGGTCAGCGGTGGTGCTCGCTG
CGGTTTGAATCACTTGCTAGGAGTCTTGCTCTCTGCCACCCAGGACATCATGGCAGCTCACCTGGTAAAGCGA
TGCACGTGCCTCCTGAGAGAAGCTGCTCGTCAGGCCCTGCCATGGCTCCAGTTGGCCGACTGAGACTTGCCTGG
GTAGCCCATAAAGCTCTGACTTCCTCAGCCACCTCACCCATTTCCACCTCCCAGGTTTCTTGATGGAGCCGGTG
GAGAAGGAACGAGCATCTACTCCCTACATAGAGAAGCAGGTGGACCACCTCATCAAGAAGGCCACAAGGCCAGAG
GAGCTCCTGGAGCTACTTGGTGGCAGTCACGACTTGGACAGCAATCAAGCAGCAATGGTACTTATCCGGCTCTCT
CACTTGCTGTCTGAGAAGCCAGAAGATAAAAGGCTTGCTCATACAGGATGCCCACTTTTCATCAACTTCTCTGTCTG
CTCAACAGTCAGATTGCCTCGGTCTGGCATGGTACCCTCTCGAAGCTGCTGGGAAGCCTGTATGCTCTGGGCATC
CCCAAGGCTTCCAAGGAGCTGCAGTCGGTGGAGCAGGAGGTCGGCTGGCGCATGCGGAAGCTCAAGTACAAGCAC
CTGGCCTTCTTGGCAGAGTCTGTGCCACCTCTCACAGGAGCAGCACTCGCAGGAGCTGCTGGCTGAGCTGCTC
ACACACCTGGAAAGGCGTTGGACAGAAATTGAAGATTCCACACATTAGTGACCGTCATGATGAAGGTGGGACAC
CTCTCGGAGCCACTAATGAACCGCCTGGAAGACAAGCAGCTCTGAACAGAGCGCAGGACATCACCTGCCCCAC
CTGTGCAGCGTACTTCTGGCTTTTGCCTGTGAACCTTCCATCCAGACCAAGAGGATCAGTTCTTCAGCCTGGTA
CATGAGAAGCTGGGGTCAGAGCTGCCAGGCTGGAGCCAGCCCTGCAGGTGGACCTGGTGTGGGCCCTGTGTGTG
CTGCAGCAGGCACGGGAAGCAGAGCTGCAAGCCGCTCTCCACCTGAATTTACATCCAATTTCTAGGGGGCAAG
TCTCAGAAGGATCAGAACACCTTCCAGAAGCTGCTCCACATCAACGCCACTGCCCTGCTGGAGTACCCCGAGTAC
TCGGGTCCCTTCTGCCTGCCTCGGCTGTGGCCCTGGGCCCTCAGCCCTTGACAGGAAGGTGACCCCTGCAA
AAGGAGCTGCAGGAGACGCTGAAGGGGCTGTGGGGAGCGCCGACAAGGGCAGCCTCGAGGTGGCCACGCAGTAT
GGCTGGGTGCTGGATGCTGAGGTGCTGCTGGACAGTGACGGCGAGTTTCTGCCCGTAAGGGACTTTGTGGCACCT
CACCTTGCCAGCCAACCTGGGAGCCAGTCACCACCTCCAGGGTCTAAGAGGCTAGCGTTCTTGCGGTGGGAGTTT
CCCAACTTCAACAGCCGAAGCAAGGACTTGCTGGGTGCTTTGTTCTGGCCCGGCGACACATAGTGGCTGCAGGC
TTCCTGATAGTGGACGTCCCATTTCTATGAGTGGCTGGAACCTCAAGTCTGAATGGCAGAAAGGCGCTACCTCAAG
GACAAGATGCGCAAAGCGGTGGCTGAGGAGCTGGCCAAGTCACTTGTGCCAGCAGCATGGACTGCGTGCCCTCTCC
GCCGGAGGTCTAGCTGTGGGCGGCCAAGAAGGGTCAACCCTTGAGGACAAACCTCTGTGCAGGACCTTGCCAGAG
TGGGGAGGGTGGCCAGCCACTCTGAGGGACAGAACGTCCTCTTGTTGTATAATAAACCTTTAATTTTGGTGTGGA
CCCTTGGGGCCTTCCAGGCTTGGTCACCCTCTGCACTGTGAGCACTTGTCTGTCTGCTTTGTTGAGCAGGGCGT
GGTTCTCCAGTCTGCCCTGTGCACTCCCCGCCACGCCAGCCCAAGAGGGCTGCTTTAGGGACAGACCTGGGT
GTTACCTGCCTGTCTCTCCAGCTTCTTCCCTCCATGAGTGTCTATTACATATGCCGGCTCTTGCGTAGGGGT
CTGTATCAGCCCCAGCAGGCAGGTGGAGTCTAGAAATCTGAACCTCCAGAGCAGAGGAGCTTCCAGGGAAGCT
GATTGGAGATTCACTGATGGCTGGGGGTTCTGATGGAGCTGTGGTACTGAACCACAGCCATCCTGGGAGGCTT
TCTCCATCAGTTGTCTCACACTTAGCTGAGTGAAGGCACCCTGACAGCATGTGGTGACAGGTGATGTGAGGGC
TGGGTGAGCACTTGGGAGGCGCTGGCTCTGGGAGAGGAGAAGATCCCACTTGGCTGACACCACGGCACCAAGAGC
CAAACCTCCATCGTTGTCTTACCACCCTGACCAGAGCCTTGTGCTGTATCTAGGAACCTGGCTGCCCAAACAGGA
CCCTGGCAGCCTCCCTGCTGTGCGGGGATTACCAGGTGCTGGGAGGCAACAAGCTTTCTACCTTCCAGCCTCTC
CTTAGAGACACCTATTGGCAGAACCTGACTAAATAGCAGTCAGGGAACCTGGGTGCTCCAGCCATACAGAACAG
AGAGTAGGACAGTGGGGTGGAGCTGAGATGGAGAGGCCACAGCCCTCAGCACTGTAGGCTCCCAACCCTAGGCT
GTTTCCCCAAAAGAAAAAGTCTAGTCACTGCTCTGATGCTTGGCCACTCACCAAGCATTGGGGTAGTTTGTGC
TGGGATCACGCCTGTAATCCAGCACTTAGGGAGGCTGGGGCGGGCAATCGCCTGAGGCCAGGAATTCAGACC
AACCTGGCCAAACATTGTGAACCTGTCTCTACTAAAAATATAAAATTAGTCGGGCATGATGACAGGCACCTGT
AATCCAGCTACTCAGGAGGCTGAGGCAGGTGAATCACTTGAACCCGGGAGGTGGAGGCTGCAGTGAGTTAAGAT
TGTGCCACTGCACTCCAGCCTGGGTAACAGAGCAAGACTCTGTCTCAAAAAATATATATGTGTGTGTGTGTGT
GTATATATATGTACATGTGTATATAAGTATATATGTGTATATATATATACAGTATATACACACACACC
CCTAAGTCATGATTTTGGAGCAATTGTAAGTGGTGTAGTGCTTAATTTTGGCATTACACATTGATTGTTAGCAT
ATAGAAATGGGATTGATTTTATGTGATCTTGCTAACTTTATGCATTTTAAAAATTCCTTTGGATTTCCTATGT
AGATATTTATGTCCTGAAAACAGGAATGTATTTATCTTTCAAATCAATATGCTTTTTATTTTGTATTTATGAC
CACTTCATTAAATAAATTACATGCCATACACTTACCCATTTAAATGTATAATTAGGCCAGGTGTGGTGGC
TCAGCTCTGTAATCCAGCAGTTTGGGAGGCCAAGGCCCTCAGATCTTGAGCCCAGGAGTTCAAGACCACCTGG

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FIGURE 2232B

GCAACAGGCAAAACCCTGTCTCTATTTTTTAAAATACAAGAATTAGCCGCAGTGGCACGCACCTGTCGTCCCAGC
AACCAGGAGGCTGAGGTAGGAGGATCACTTAAGCCTGGGAAGTCAAGCCTGCAGTGAACCATGATAGCACCCT
GCAGTCCAGCCTGGGCGACAGAGTGAGACCCCATCTCGAAAACAAAATGTATAATTCAGTGGTTTTTAGTCTCT
TTGCAGATACATGCAACCATCACCACAATTTGCACATTTTCTAAGCCTCATATACTGATGTGATATTTGGTGTT
TTGTGACTGGCTTCATTTACTTAGCATATTGTTTTCATGTTTCATTCATGTCGCATGTATGAGTATTCATTCCTT
TATTTGGCTGAATAATATTCATTATAGTTTGTGCCACATTTGTTTATCCATTCATCCATTGATGGACATGTGG
ATTGTTTCCACCTTCTGGATAATATGAACTGATACAGTTTGGATATTTGTCCCCTCCAAATCTCATGAAATAGG
ATCACCAGTGTTGGAGAATGGGGCCTGTTAGGAAGTGTTTGGATCATAGGAACATCTGTCATAAATGGCTTGGTG
CCATCCTTGTAATGAGTGAGTTCTTGCTCTATATTAGTTCACCTTGAAAGCTGGTTGTTGGGAACCTCGCCCTAT
CTGTTCTGCCCTCTCTCGTCATGTGACATGCCTGCTCCTTGTTACCTTCTGTCATGAGTAAAAGCTTCCTAAGG
CCTTCCCAGGAGCCAAGCAGATGTCAGTACCATGCTTGTACAGCCTGCAGAACTGTGAGCCAAATAAACTTCCTT
ATAAATT

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FIGURE 2233

MAAHLVKRCTCLLREAARQAPAMAPVGRRLAWVAHKTLTSSATSPISHLPGSLMEPVEKERASTPYIEKQVDHL
IKKATRPEELLELLGGSHDLDNQAAMVLIRLSHLLSEKPEDKGLLIQDAHFHQLLCLLNSQIASVWHGTL SKLL
GSLYALGIPKASKELQSVEQEVRRMRKLKYKHLAFLAESCATLSQEQHSQELLAELLTHLERRWTEIEDSHTLV
TVMMKVGHLSPELMNRLEDKHVLNRAQDITLPHLCSVLLAFARLNHFDPQEDOFFSLVHEKLGSELPGLEPALQV
DLVWALCVLQQAREAEQLQAVLHPEFHIQFLGGKSQKDQNTFQKLLHINATALLEYPEYSGPLL PASAVAPGPSAL
DRKVTPLQKELQETLKGLLSADKGSLEVATQYGWVLD AEVLLDSDGEFLPV RDFVAPHLAQPTGSQSPPPGSKR
LAFLRWEFPNFNSRSKDLLGRFVLARRHIVAAGFLIVDPFYEWLELKSEWQKGAYLKDKMRKAVAEELAK

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FIGURE 2234

GGCACGAGGCCCGGGTCGAGCATGTAGCGGCTGCTGGCGGGCGGGCTCCCGGGCGGGCCGGGCGGGCCGCGGGA
GCCGCACGCGCGCATATGGAAGAGGAGGGCAAGAAGGGCAAGAAGCCTGGAATTGTCTCGCCATTAAACGAGTA
TTCCTAAAAGGTGAAAAGAGTAGAGATAAGAAAGCCCATGAGAAGGTGACAGAGAGGCGCCCTCTGCACACTGTG
GTGTTGTCAATTGCCTGAGCGCGTCGAGCCAGACAGACTGCTGAGCGACTATATTGAGAAGGAGGTAAAGTATTTA
GGTCAGTTAACGTCCATACCAGGATACCTGAATCCCTCCAGTAGGACTGAAATCCTGCATTTCATAGACAATGCA
AAGAGAGCCCACCAGCTTCCGGGACACTTGACTCAGGAGCAGCATGCTGTGCTCAGCCTGTCTGCGTACAACGTC
AAGTGGCCTGGAGGGACGGGGAGGATATCATCTCAGGGTGCCCATCCATGACATCGCCGCCGTCTCCTATGTT
CGGGATGACGCTGCACACCTGGTGGTCCTGAAGACAGCCCAGGACCCAGGGATCTCCCCAGCCAGAGTCTGTGT
GCGGAAAGTTCCAGAGGCCCTCAGTGCAGGCTCCCTGTGCGAGAGTGCAGTTGGGCCCGTGGAGGCATGCTGCCTG
GTCATCTGGCTGCAGAGAGCAAGGTGCTGCGGAGGAGCTTTGCTGTCTGCTAGGCCAGGTCTTCCAGGTTGTT
TACACGGAGTCCACCATCGACTTTCTGGACAGAGCGATATTTGATGGGGCCTTACCCCGACCCACCACCTGTCC
CTGCACAGCGATGACTCTTCTACAAAAGTGGACATTAAGGAGACCTACGAGGTGGAAGCCAGCACTTCTGCTTC
CCTGAATCTGTGGATGTGGGTGGTGCATCACCCACAGCAAGACCATCAGTGAGAGCGAGCTGAGCGCCAGCGCC
ACTGAGCTGCTGCAGGACTACATGCTGACGCTGCGCACCAAGCTGTCTATCACAGGAGATCCAGCAGTTTGCAGCA
CTGCTGCACGAGTACCGCAATGGGGCCTCTATCCACGAGTTCTGCATCAACCTGCGGCAGCTCTACGGGGACAGC
CGCAAGTTCCTGCTGCTTGGTCTGAGGCCCTTCATCCCTGAGAAGGACAGCCAGCACTTCGAGAACTTCCTGGAG
ACCATTGGCGTGAAGGATGGCCGCGGCATCATCTGACAGCTTTGGCAGGCACCGCGGGGCCCTGAGCACCACA
TCCAGTTCCACCACCAATGGGAACAGGGCCACGGGCAGCTCTGATGACCGGTGCGCACCTCAGAGGGGGATGAG
TGGGACCGCATGATCTCGGACATCAGCAGCGACATTGAGGCGCTGGGCTGCAGCATGGACCAGGACTCAGCATGA

TGGACAGTGGATGGGGGGGACCCACACCTTCCGCGCAGTCGTCATAGGCCTTCCCAGAAGGAGCTGCCCAGACC
TGCGTGTGAGCCCTTGGTGGTGGCCAGGGAGAGGCGCCCGGTGCAGATGGCCCCGGGCGGCCAGGTCTCTACT
GTGAAGGAGCAGGGAGCTGCCGAGGGACACGAGCCTCAGTGCGGGGTGAAGGCTCTTTGCCTTGTCCACCAGGG
CTCAGCCAAGCCCTGCAGTGTGTCCCGCTCGGGGAGGGCCCGGCCGAGCGGGCAGGGAGAGCCAGTCTGTGCGG
CTGGGCCCTTGGACGGCTGTGAGTTTTGCACATGATGTTCCCTATTGTAACCTCTCAGAGACCTTAAAAAGAAGTTT
ACTGCAATGTGAATAATTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2235

MEEEGKKGKKPGIVSPFKRVFLKGEKSRDKKAHEKVTERRPLHTVVLSLPERVEPDRLSDYIEKEVKYLGQLTS
IPGYLNPSSRTEILHFIDNAKRAHQLPGHILTQEHDVLSLSAYNVKLAWRDGEDIILRVPIHDIAAVSYVRDDAA
HLVVLTAKTADPGISPSQSLCAESSRGLSAGSLSES AVGPVEACCLVILAAESKVA AEELCCLLGQVFQVYTEST
IDFLDRAIFDGASTPTHLSLHSDDSSTKV DIKETYEVEASTFCFPESVDVGGASPHSKTISESELSASATELLQ
DYMLTLRTLKSSQEIQQFAALLHEYRNGASIHEFCINLRQLYGDSRKFLLGLRPFIPKDSQHFENFLETIGVK
DGRGIITDSFGRHRRALSTTSSSTTNGNRATGSSDDRSAPSEGDEWDRMISDISSDIEALGCSMDQDSA

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FIGURE 2236

TGGGGTTCGAACCAGCAAGACAAGCGGGCATTGGCCACAGCAGCGCGAGGCGGGCACGGGGTATTGTCCGGCTCC
GGCGGCGGGCGGTTCGGTGCTGCGAGAGCGGCGGGCGGGCGGGTTCGGCAGCGGGAGGGCGCGGGCCGAGCGGA
GGCGGAGTCGGCGCCGAGAACAATGGCTGGAGGCAAAGCTGGAAAGGACAGTGGGAAGGCCAAGGCTAAGGCAGTA
TCTCGCTCACAGAGAGCTGGGCTACAGTTTCTGTGGGCCGCATCCACAGACACTTGAAGACTCGCACCACAAGC
CATGGAAGGGTGGGTGCCACTGCTGCCGTGTACAGTGCTGCGATTCTGGAGTACCTCACTGCAGAGGTGCTGGAG
CTGGCAGGTAATGCTTCTAAGGATCTCAAAGTAAAGCGTATCACTCCGCGTCACTTGCAGCTTGCAATCCGTGGT
GATGAAGAGTTGGATTCTCTTATCAAGGCTACCATAGCTGGGGGTGGTGTGATCCCTCACATCCACAAATCTCTG
ATTGGAAGAAGGGACAGCAGAAAAGCTGCTTAGAGGGATGCTTTAACCAACCCCTTCTCTCCCGTCATTGTACT
GTAAGTGGGACAGAAAGAAATAATGGGGATATGTGGAATTTTAAACAACAGTTAAATGGAAAAGCATAGACAATTA
CTGTAGACATGATAAAAGAAACATTTGTATGTTCTTAGACTCGAAGTTTGATAAAAGTACCTTTTCATGTGGTGA
CAGTTGTGTGTTGATTGGCTAGGTTTCTCCCGTGTGTTTTATACAAAATGGAATTGATAAACCATTTTTTACAA
AATTAAAAAAAAAAAAAAAAA

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FIGURE 2237

MAGGKAGKDSGKAKAKAVSRSQRAGLQFPVGRIHRHLKTRTTSHGRVGATAAVYSAAILEYLTAEVLELAGNASK
DLKVKRITPRHLQLAIRGDEELDSLKATIAGGGVIPHIHKSLIGKKGQQKTA

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FIGURE 2238

GTTTTGCAGACGCCACCGCCGAGGAAAACCGTGTACTATTAGCCATGGTCAACCCACCGTGTTCCTCGACATTG
CCGTCGACGGCGAGCCCTTGGGCCGCGTCTCCTTTGAGCTGTTTGCAGACAAGGTCCCAAAGACAGCAGAAAATT
TTCGTGCTCTGAGCACTGGAGAGAAAGGATTTGGTTATAAGGGTTCCTGCTTTCACAGAATTATCCAGGGTTTA
TGTGTCAGGGTGGTGACTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTTGAAGATG
AGAACTTCATCCTAAAGCATAACGGGTCTGGCATCTTGTCCATGGCAAATGCTGGACCCAACACAAATGGTTCCC
AGTTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGGTTTGGCAAAGTGAAAGAAGGCA
TGAATATTGTGGAGGCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACT
GTGGACAACTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGATCATTCCTTCTGTAGCTCAGGAGAGCA
CCCCCCACCCCATTTGCTCGCAGTATCCTAGAAATCTTTGTGCTCTCGCTGCAGTTCCTTTGGGTTCATGTTT
TCCTTGTTCCCTCCCATGCCTAGCTGGATTGCAGAGTTAAGTTTATGATTATGAAATAAAAACTAAATAACAATT
GTC

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FIGURE 2239

MVNPTVFFDIAVDGEPLGRVSFELFADKVPKTAENFRALSTGEKGFGYKGSCFHRIIPGFMCQGGDFTRHNGTGG
KSIYGEKFEDENFILKHTGPGILSMANAGPNTNGSQFFICTAKTEWLDGKHVVFGKVKEGMNIVEAMERFGSRNG
KTSKKITIADCGQLE

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FIGURE 2240A

GCAGTTGTGAAAACTTCAGGACAAAAATGTTTCATTTAAGGACTTGTGCTGCTAAGTTGAGGCCATTGACGGCT
TCCCAGACTGTTAAGACATTTTCACAAAACAGACCAGCAGCAGCTAGGACATTTCAACAGATTCCGGTGCTATTCT
GCACCTGTTGCTGCTGAGCCCTTCTCAGTGGGACTAGTTTCAACTATGTGGAGGAGATGTACTGTGCTTGGCTG
GAAAACCCCAAAAGTGATACATAAGTCATGGGACATTTTTTTTCGCAACACGAATGCCGGAGCCCCACCGGGCACT
GCCTACCAGAGTCCCCCTTCCCCTGAGCCGAGGCTCCCTGGCTGCTGTGGCCCATGCACAGTCCCTGGTAGAAGCA
CAGCCCAACGTGGACAAGCTCGTGGAGGACCACCTGGCAGTGCAGTCGCTCATCAGGGCATATCAGATACGAGGG
CACCATGTAGCACAGCTGGACCCCTGGGGATTTTGGATGCTGATCTGGACTCCTCCGTGCCCGCTGACATTATC
TCATCCACAGACAACTTGGGTTCTATGGCCTGGATGAGTCTGACCTCGACAAGGTCTTCCACTTGCCCAACCACC
ACTTTCATCGGGGGACAGGAATCAGCACTTCCCTGCGGGGAGATCATCCGTCCGGCTGGAGATGGCCTACTGCCAG
CATATTGGGGTGGAGTTCATGTTTCATCAATGACCTGGAGCAGTGCCAGTGGATCCGGCAGAAGTTTGAGACCCCT
GGGATCATGCAGTTTCAAAATGAGGAGAAACGGACCCTGCTGGCCAGGCTTGTGCGGTCCACCAGGTTTGAGGAG
TTCCTACAGCGGAAGTGGTCCCTCTGAGAAGCGCTTTGGTCTAGAAGGCTGCGAGGTACTGATCCCTGCCCTCAAG
ACCATCATTGACAAGTCTAGTGAGAATGGCGTGGACTACGTGATCATGGGCATGCCACACAGAGGGCGGCTGAAC
GTGCTTGCAAATGTATCAGGAAGGAGCTGGAACAGATCTTCTGTCAATTGATTCAAAGCTGGAGGCAGCTGAT
GAGGGCTCCGGAGATGTGAAGTACCACCTGGGCATGTATCACCGCAGGATCAATCGTGTACCGACAGGAACATT
ACCTTGTCCTTGGTGGCCAACCCTTCCCACCTTGAGGCGCGTGACCCCGTGGTGTATGGGCAAGACCAAGCCGAA
CAGTTTTACTGTGGCGACACTGAAGGGAAAAAGGTCATGTCCATCCTGTTGCATGGGGATGCTGCATTGCTGGC
CAGGGCATTGTGTACGAGACCTTCCACCTCAGCGACCTGCCATCCTACACAACCTCATGGCACCGTGCACGTGGTC
GTCAACAACCAGATCGGCTTACCACCGACCCCTCGGATGGCCCGCTCCTCCCCCTACCCCACTGACGTGGCCGA
GTGGTGAATGCCCCCATTTTCCACGTGAACCTCAGATGACCCCGAGGCTGTATGTACGTGTGCAAAGTGGCGGCC
GAGTGGAGGAGCACCTTCCACAAGGACGTGGTTGTGATTTGGTGTGTTACCGGCGCAACGGCCACAACGAGATG
GATGAGCCCATGTTACGCAGCCGCTCATGTACAAGCAGATCCGCAAGCAGAAGCCTGTGTTACAGAAGTACGCT
GAGCTGCTGGTGTGCGAGGGTGTGGTCAACCAGCCTGAGTATGAGGAGGAAATTTCCAAGTATGATAAGATCTGT
GAGGAAGCTTTTGCCAGATCTAAAGATGAGAAGATCTTGACATTAAGCACTGGCTGGACTCTCCCTGGCCTGGC
TTCTTACCCTGGACGGGCAGCCAGGAGCATGTCTGCCCCCTCCACGGGTCTGACGGAGGATATTCTGACACAC
ATCGGGAATGTGGCTAGTTCTGTGCTGTGGAAAACCTTACTATTTCATGGAGGGCTGAGCCGGATCTTGAAGACT
CGTGGGGAAATGGTGAAGAACCGGACTGTGGACTGGGCTCTAGCGGAGTACATGGCGTTTGGCTCGCTCCTGAAG
GAGGGCATCCACATTCCGGCTGAGCGGCCAGGACGTGGAGCGGGGCACATTAGCCACCGCCACCATGTGCTCCAT
GACCAGAATGTGGACAAGAGAACCTGCATCCCCATGAACCATCTCTGGCCCAATCAGGCCCCCTATACTGTGTGC
AACAGCTCACTGTCTGAGTACGGCGTGTGGGCTTTGAGCTGGGCTTCGCCATGGCCAGTCTTAATGCCCTGGTC
CTCTGGGAAGCCCAATTTGGTGACTTCCACAACACGGCCAGTGTATCATCGACCACTTCACTGCCCCGGGACAA
GCCAAGTGGGTGCGGCAGAATGGCATCGTGTGCTGCTGCCCCATGGCATGGAGGGCATGGGTCCAGAACATTCC
TCCGCCCCGCCAGAGCGGTTCTTGCAGATGTGCAACGATGACCCAGATGTCTGCCAGACCTTAAAGAAGCCAAC
TTCGACATCAATCAGCTATATGACTGCAATTGGGTTGTTGTCAACTGCTCCACTCCTGGCAACTTCTTCCACGTG
CTACGACGCCAGATCCTGCTGCCATTCCGGAAGCCGTTAATTATCTTACCCCCAAATCCCTGTTGCGCCACCCC
GAGGCCAGATCCAGCTTTGATGAGATGCTTCCAGGAACCCACTTCCAGCGGGTGATCCAGAAAGATGGCCCTGCA
GCTCAGAACCCAGAAAAATGTCAAAAGGCTTCTCTTCTGCAACCGCAAAGTGTATTATGACCTCACCCGGGAGCGC
AAAGCACGCGACATGGTGGGGCAGGTGGCCATCACAAGGATTGAGCAGCTGTGCGCCATTCCCTTTGACCTCCTG
CTGAAGGAGGTGCAGAAGTACCCCAATGCTGAGCTGGCCTGGTGCCAGGAGGAGCACAAGAACCAAGGCTACTAT
GACTACGTGAAGCCAAGACTTCGGACCACCATCAGCCGCGCCAAGCCCGTCTGGTATGCCGGCCGGGACCCAGCG
GCTGCTCCAGCCACCGGCAACAAGAAGACCCACCTGACGGAGCTGCAGCGCCTCCTGGACACGGCCTTCGACCTG
GACGTCTTCAAGAACTTCTCGTAGATGCTGCCTAGGGTTGCTTGGGCCACTGCCCTCTCCACACCCATGACTGCC
CCTTGCTTCTCAACTAAAGAATAGTGCCTCAGCGCTGCCACACCACCGCCCTCCTCGCTGTGCCACCACCCCTC
CCTTGCTGCTTCTGAGGAGTTAGGCTGTGCTCCCCCTCCAGTGCTTGGCTGCCCCACAGGCCACACGCTGCCAGG
CTCTGCTGACTTCTGAGCAGTTTTTCCAGGAGCGCGGGGGAGCAGGAGGAGGAAAGGTAGCCCCCAGGGATGTC
CTTGGGGAGGGGTGAGCTGTGGCCACAATCCTCCCCACCACTCTCACCCACTAGGATAGGAAGTGGGCTTGTGT
GCTGGCTTCCGCTGTACCCAGCAAGGCACAGGCTCCTGTATTTGAGACTAGGATAGCTTCTTGTGAGCTGAG
CCTTAGAATCTGTAGAGGAGCCTGGAGTCGGATCTAGCCATGGCTGGCAGAGGTTTCTAGGGTGGGCCCCAGCCG

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FIGURE 2240B

TGGCGTGAAGTGAAGATGACCCGGGGCAGCTGGCAGGAGAGAGCCTTGGCCTGACCTGGCACAGAAAGGGCAGCT
TCAGTCTCTGCAGTGTCCATTATCTGCTGTTCCCTTCGAGGGTTCCAGGCTGTGTGTGGGGCCCAAGCATGCCCA
CCCACCCCTCCTGGGGCCAGGCAGCACCTGGAGCCCACAGAGTCTGTGTGTAGCCAGGAAGCCCCGCTCAGGTAG
CCACCACGGGGCACTGGCTGCTCTGTCTTGGTCCTGTTAACCCCTCCACCTCCTCTCTTGGACTCCCTCCCCACC
CCAACCACTCTTTCTTTCTCCTTTAACCCAATGGAGACTTTCTGATGCATCGTTTCTTTGCTGTGCCAAAGCAG
GTCAGAAGAGGGAGAGGAGGGGCTGGGGGTGAGGGGCCAGGCCATGGCCAAGGGGCCAGCTGCCCCTCATTTATC
ACTCTGACCTTCACAGGGACAGATCTGATTTATTTATTTTGGTT

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FIGURE 2241

MFHLRTCAAKLRPLTASQTVKTF SQNRPA AARTFQQIRCYSAPVAAEPFLSGTSSNYVEEMYCAWLENPKSVHKS
WDIFFRNTNAGAPPGTAYQSPLPLSRGSLAAVAHAQSLVEAQPNVDKLVEDHLAVQSLIRAYQIRGHHVAQLDPL
GILDADLDSSVPADIISSTDKLG FYGLDESDLDKV FHLPTTTFIGGQESALPLREIIRRLEMAYCQHIGVEFMFI
NDLEQCQWIRQKFETPGIMQFTNEEKRTLLARLVRSTRFEFLQRKWSSEKRFGLGCEVLIPALKTIIDKSSSEN
GVDYVIMGMPHRGRLNVLANVIRKELEQIFCQFDSKLEAADEGSGDVKYHLGMYHRRINRVTD RNTLSLVANPS
HLEAADPVVMGKTKAEQFYCGDTEGKKVMSILLHGDAAFAGQGIVYETFHLSDLPSYTHGT VHV VVNNQIGFTT
DPRMARSSPYPTDVARVVNAPIFHVNSDDPEAVMYVCKVAAEWRSTFHKDVVVDLVCYRRNGHNEMDEPMFTQPL
MYKQIRKQKPV LQKYAELLVSQGVVNQPEYEEEISKYDKICEEAFARSKDEKILHIKHWLDSFPWPGFFTLDGQPR
SMSCPSTGLTEDILTHIGNVASSVPVENFTIHGGLSRILKTRGEMVKNRTVDWALAEYMAFGSLLKEGIHIRLSG
QDVERGTFSHRHHVLHDQNVDKRTCIPMNLWPNQAPYTVCNSSLSEYGV LGFELGFAMASPNALVLWEAQFGDF
HNTAQCIIDQFICPGQAKWVRQNGIVLLLP HGMEGMGPEHSSARPERFLQMCND DDPVLPDLKEANFDINQLYDC
NWVVVNCSTPGNFFHVLRRQILLPFRKPLIIFTPKSLLRHPEARSSFDEMLPGTHFQRVIPEDGPAAQN PENVKR
LLFCTGKVYYDLTRERKARDMVGQVAITRIEQLSPFPFDLLLKEVQKYPNAELAWCQEEHKNQGYDYVKPRLRT
TISRAKPVWYAGRDPAAAPATGNKKTHLTELQRLD TAFDLDVFKNFS

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FIGURE 2242

GCTGCTCCCGCTCGCGTCGGTGGCGTTTTTTCCTGCAGCGCGTGCGTGCTGCGCTACTGAGCAGCGCCATGGGAGGA
CTCTGAAGCACTGGGCTTCGAACACATGGGCCTCGATCCCCGGCTCCTTCAGGCTGTACCGATCTGGGCTGGTC
GCGACCTACGCTGATCCAGGAGAAGGCCATCCCACTGGCCCTAGAAGGGAAGGACCTCCTGGCTCGGGCCCGCAC
GGGCTCCGGGAAGACGGCCGCTTATGCTATTCCGATGCTGCAGCTGTTGCTCCATAGGAAGGCGACAGGTCGGGT
GGTAGAACAGGCAGTGAGAGGCCTTGTTCTTGTTCTACCAAGGAGCTGGCACGGCAAGCACAGTCCATGATTCA
GCAGCTGGCTACCTACTGTGCTCGGGATGTCCGAGTGGCCAATGTCTCAGCTGCTGAAGACTCAGTCTCTCAGAG
AGCTGTGCTGATGGAGAAGCCAGATGTGGTAGTAGGGACCCCATCTCGCATATTAAAGCCACTTGACGAAGACAG
CCTGAAACTTCGTACTCCCTGGAGCTTTTGGTGGTGGATGAAGCTGACCTTCTTTTTTCTTTGGCTTTGAAGA
AGAGCTCAAGAGTCTCCTCTGTCACTTGCCCCGGATTTACCAGGCTTTTCTCATGTCACTACTTTTAACGAGGA
CGTACAAGCACTCAAGGAGCTGATATTACATAACCCGGTTACCCTTAAGTTACAGGAGTCCCAGCTGCCTGGGCC
AGACCAGTTACAGCAGTTTCAGGTGGTCTGTGAGACTGAGGAAGACAAATTCCTCCTGCTGTATGCCCTGCTCAA
GCTGTCAATTGATTCCGGGGCAAGTCTCTGCTCTTTGTCAACACTCTAGAACGGAGTTACCGGCTACGCCCTGTCTT
GGAACAGTTTCAGCATCCCCACCTGTGTGCTCAATGGAGAGCTTCCACTGCGCTCCAGGTGCCACATCATCTCACA
GTTCAACCAAGGCTTCTACGACTGTGTATAGCAACTGATGCTGAAGTCCTGGGGGCCCCAGTCAAGGGCAAGCG
TCGGGGCCGAGGGCCCCAAAGGGGACAAGGCCTCTGATCCGGAAGCAGGTGTGGCCCGGGGCATAGACTTCCACCA
TGTGTCTGCTGTGCTCAACTTTGATCTTCCCCCAACCCCTGAGGCCTACATCCATCGAGCTGGCAGGACAGCACG
CGCTAACAACCCAGGCATAGTCTTAACCTTTGTGCTTCCCACGGAGCAGTTCCACTTAGGCAAGATTGAGGAGCT
TCTCAGTGGAGAGAACAGGGGCCCCATTCTGCTCCCTACCAAGTTCCGGATGGAGGAGATCGAGGGCTTCCGCTA
TCGCTGCAGGGATGCCATGCGCTCAGTGACTAAGCAGGCCATTCCGGGAGGCAAGATTGAAGGAGATCAAGGAAGA
GCTTCTGCATTCTGAGAAGCTTAAGACATACTTTGAAGACAACCCCTAGGGACCTCCAGCTGCTGCGGCATGACCT
ACCTTTGCACCCCGCAGTGGTGAAGCCCCACCTGGGCCATGTTTCTGACTACCTGGTTCTTCTGCTCTCCGTGG
CCTGGTACGCCCTCACAAGAAGCGGAAGAAGCTGTCTTCTTGTAGGAAGGCCAAGAGAGCAAAGTCCCAGAA
CCCACTGCGCAGCTTCAAGCACAAAGGAAAGAAATTACAGCCACAGCCAAGCCCTCCTAGAGTTGTTGGGCCTC
TCTGGAGCTGAGCACATTGTGGAGCACAGGCTTACACCCTTCGTGGACAGGCGAGGCTCTGGTGCTTACTGCACA
GCCTGAACAGACAGTTCTGGGGCCGGCAGTGCTGGSCCTTTAGCTCCTTGGCACTTCCAAGCTGGCATCTTGCC
CCTTGACAACAGAATAAAAATTTAGCTGCCCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 2243

MEDSEALGFEHMGDPRLLQAVTDLGWSRPTLIQEKAIPLEALEGKDLLARARTGSGKTAAYAIPMLQLLLHRKAT
GPVVEQAVRGLVLVPTKELARQAQSMIQQLATYCARDVRVANVSAEDSVSQRAVLMEKPDVVVGTPSRILSHLQ
QDSLKLKRLSLELLVVDEADLLFSFGFEEELKSLLCHLPRIYQAFMSATFNEDVQALKELILHNPVTLKLQESQL
PGPDQLQQFQVVCETEEDKFLLLYALLKLSLIRGKSLLFVNTLERSYRLRLFLEQFSIPTCVLNGELPLRSRCHI
ISQFNQGFYDCVIATDAEVLGAPVKGKRRGRGPKGDKASDPEAGVARGIDFHHVSAVLNFDLPPTPEAYIHRAGR
TARANNPGIVLTFVLPTQFHLGKIEELLSGENRGFILLPYQFRMEEIEGFYRCRDAMRSVTKQAIAREARLKEI
KEELLHSEKLKTYFEDNPRDLQLLRHDLPLHPAVVKPHLGHPDYLVPPALRGLVRPHKKRKKLSSSCRKAKRAK
SQNPLRSFKHKGKKFRPTAKPS

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FIGURE 2244

TCTTCCTCGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTCCTCGGCATCATGGCCGCCCTCAGACCCCTTGTGA
AGCCCAAGATCGTCAAAAAGAGAACCAAGAAGTTCATCCAGCACCAGTCAGACCAATATGTCAAAATTAAGCGTA
ACTGGCGGAAACCCAGAGGCACTGACAACAGGGTTTCGTAGAAGATTCAAGGGCCAGATCTTGATGCCCAACATTG
GTTATGGGAGCAACAAAAAACAAGCACATGCTGCCCAGTGGCTTCCGGAAGTTCCTGGTCCACAACATCAAGG
AGCTGGAAGTGCTGCTGATGTGCAACAAATCTTACTGTGCCGAGATCGCTCACAATGTTTCCTCCAAGAACCGCA
AAGCCATCGTGGAACAGCTGCCCAACTGGCCATCAGAGTCACCAACCCCAATGCCAGGCTGCGCAGCGAAGAAA
ATGAGTAGACAGCTCGTGTGCACGTTTTCTGTTTAAATAAATGTAAAACTGC

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FIGURE 2245

GCTGCTCCCTGAGAACGGGTCCCGCAGCTGGGCAGGCGGGCGGCCTGAGGGCGCGGAGCCATGAAGCTGTACAGC
CTCAGCGTCCTCTACAAAGGCGAGGCCAAGGTGGTGCTGCTCAAAGCCGCATACGATGTGTCTTCCTTCAGCTTT
TTCCAGAGATCCAGCGTTCAGGAATTCATGACCTTCACGAGTCAACTGATTGTGGAGCGCTCATCGAAAGGCACT
AGAGCTTCTGTCAAAGAACAAGACTATCTGTGCCACGTCTACGTCCGGAATGATAGTCTTGCAGGTGTGGTCATT
GCTGACAATGAATACCCATCCCGGGTGGCCTTTACCTTGCTGGAGAAGGTACTAGATGAATTCTCCAAGCAAGTC
GACAGGATAGACTGGCCAGTAGGATCCCCTGCTACAATCCATTACCCAGCCCTGGATGGTCACCTCAGTAGATAC
CAGAACCCACGAGAAGCTGATCCCATGACTAAAGTGACAGGCCGAACTAGATGAGACCAAAATCATTCTGCACAAC
ACCATGGAGTCTCTGTTAGAGCGAGGTGAGAAGCTAGATGACTTGGTGTCCAAATCCGAGGTGCTGGGAACACAG
TCTAAAGCCTTCTATAAACTGCCCCGAAACAAAATCATGCTGTGCCATCATGTGATGCAGCCTGCCAGAGGCC
CAATGCTGGAATGGCACCATCATTCACATCAGAACTGCAGCCCCTGGAAAAGAAGAGACA

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FIGURE 2246

CGGGATGCGGCGCGCCGCGCGTTGAACCTCCTTGGCCTGGGCGAAGCTGTGTGGACCAAGCAAGTCAGGAGTGTG
GCCATGTTTTCTGAGCAGGCTGCCCAGAGGGCCACACTCTACTGTCCCCACCATCAGCCAACAATGCCACCTTT
GCCCCGGGTGCCAGTGGCAACCTACACCAACTCCTCACAACCTTCCGGCTAGGAGAGCGCAGCTTTAGCCGGCAG
TATGCCACATTTATGCCACCCGCTCATCCAAATGAGACCTTCTGGAGAACCAGGCCCCAGCAGCACTGGGGC
AGTGGAGTGGGAGTGAAGAAGCTGTGTGAACCTGCAGCCTGAGGAGAAGTGCTGTGTGGTGGGCACTCTGTTCAAG
GCCATGCCGCTGCAGCCCTCCATCCTGCGGGAGGTCAGCGAGGAGCACAACCTGCTCCCCCAGCCTCCTCGGAGT
AAATACATACACCCAGATGACGAGCTGGTCTTGAAGATGAACCTGCAGCGTATCAAATAAAAGGCACCATTGAC
GTGTCAAAGCTGGTTACGGGGACTGTCTGGCTGTGTTTGGCTCCGTGAGAGACGACGGGAAGTTTCTGGTGGAG
GACTATTGCTTTGCTGACCTTGCTCCCCAGAAGCCCGCACCCCCACTTGACACAGATAGGTTTGTGCTACTGGTG
TCCGGCCTGGGCCTGGGTGGCGGTGGAGGCGAGAGCCTGCTGGGCACCCAGCTGCTGGTGGATGTGGTGACGGGG
CAGCTTGGGGACGAAGGGGAGCAGTGCAGCGCCGCCACGTCTCCCGGTTATCCTCGCTGGCAACCTCCTCAGC
CACAGCACCCAGAGCAGGGATTCTATCAATAAGGCCAAATACCTCACCAAGAAAACCCAGGCAGCCAGCGTGGAG
GCTGTAAAGATGCTGGATGAGATCCTCCTGCAGCTGAGCGCCTCAGTGCCCGTGGACGTGATGCCAGGCGAGTTT
GATCCCACCAATTACACGCTCCCCAGCAGCCCTCCACCCCTGCATGTTCCCGCTGGCCACTGCCTACTCCACG
CTCCAGCTGGTCACCAACCCCTACCAGGCCACCATTGATGGAGTCAGATTTTGGGGACATCAGGACAGAACGTG
AGTGACATTTCCGATACAGCAGCATGGAGGATCACTTGGAGATCCTGGAGTGGACCCTGCGGGTCCGTACATC
AGCCCCACAGCCCCGGACACTCTAGGTTGTTACCCCTTCTACAAAACCTGACCCGTTTCATCTTCCAGAGTGCCCG
CATGTCTACTTTTGTGGCAACACCCCCAGCTTTGGCTCCAAAATCATCCGAGGTCCTGAGGACCAGACAGTGCTG
TTGGTGACTGTCCCTGACTTCAGTGCCACGCAGACCGCCTGCCTTGTGAACCTGCGCAGCCTGGCCTGCCAGCCC
ATCAGCTTCTCGGGCTTCGGGGCAGAGGACGATGACCTGGGAGGCCTGGGGCTGGGCCCCTGACTCAAAAAAGTG
GTTTTGACCAGAGAGGCCAGATGGAGGCTGTTTCATTCCTGCAGTGTGGCATTGTAAATAAAGCCTGGCACTT
GCTGATGCG

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FIGURE 2247

MFSEQAAQRAHTLLSPPSANNATFARVPVATYTNSSQPFRLGERSFSRQYAHYATR LIQMRPFLENRAQQHWGS
GVGVKKLCELQPEEKCCVVGTLFKAMPLQPSILREVSEHNLLQP PPSKYIHPDDELVLEDELQRIKLKGTIDV
SKLVTGTVLAVFGSVRDDGKFLVEDYCFADLAPQKPAPPLDTRFVLLVSGLG LGGGGESLLGTQLLDVVTGQ
LGDEGEQCSAAHVSRVILAGNLLSHSTQSRDSINKAKYLT KKTQAASVEAVKMLDEILLQLSASVPVDVMPGEFD
PTNYTLPQQPLHPCMFPLATAYSTLQLVTNPYQATIDGVRFLGTSGQNVSDIFRYSSMEDHLEILEWTLRVRHIS
PTAPDTLGCYPFYKTDFFIFPEC PHVYFCGNTPSFGSKIIRGPEDQTVLLVTVPDFSATQTACLVNLRSLACQPI
SFSGFGAEDDDLGGGLGLGP

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FIGURE 2248A

TCCCTCGCTCACCCCATCCTCTCTCCCGCCCCCTTCTTGATTCCCTCACCCGTCTCGATCCCCTCTCCGCCCTTT
CCCAGAGACCCAGAGCCCCTGACCCCCCGCGCCCTCCCCGAGCCCCCGCGCGTGCCGCGGCCATGGCGGCCGT
GCGCGGGGCGCCCTGCTCAGCTGCCTCCTGGCGTTGTCTGGCCCTGTGCCCTGGAGGGCGCCCGCAGACGGTGCT
GACCGACGACGAGATCGAGGAGTTCCTCGAGGGCTTCCTGTCTCAGAGCTAGAACCTGAGCCCCGGGAGGACGACGT
GGAGGCCCCGCGCCTCCCGAGCCCACCCCGCGGGTCCGAAAAGCCAGGCGGGGGCAAGCCAGGGAAGCGGCC
AGGGACGGCCGAGAAAGTGCCTCCGAAAAGACCAAGACAAAGGAAGAAAGGCAAGAAAGACAAAGGCCCCAA
GGTGCCCAAGGAGTCTTGGAGGGGTCCCCAGGCCGCCCAAGAAAGGGAAGGAGAAGCCACCCAAGGCCACCAA
GAAGCCCAAGGAGAAGCCACCTAAGGCCACCAAGAAGCCCCGTGAGGGAAGAGGCCCCCATTTCTGGCTCCCTCAGAAACCT
AGAGAAGCCACCCAAGGCCACCAAGAAGCCCCGTGAGGGAAGAGGCCCCCATTTCTGGCTCCCTCAGAAACCT
GGAGTGGCCACTGCCCCACCCCCAGCCCTGGCCCCGAGGAGCTACCCAGGAGGGAGGGGCGCCCTCTCAAA
TAACTGGCAGAATCCAGGAGAGGAGACCCATGTGGAGGCACGGGAGCACCAGCCTGAGCCGGAGGAGGAGACCGA
GCAACCCACACTGGACTACAATGACCAGATCGAGAGGGAGGACTATGAGGACTTTGAGTACATTGCGCGCCAGAA
GCAACCCAGGCCACCCCCAAGCAGAAGGAGGAGGCCGAGCGGGTCTGGCCAGAGCCCCCTGAGGAGAAGGCCCC
GGCCCCAGCCCCGGAGGAGAGGATTGAGCCTCTGTGAAGCCTCTGCTGCCCCCGTGGCCCCCTGACTATGGTGA
TGGTTACGTGATCCCCAACTACGATGACATGGACTATTACTTTGGGCCTCCTCCGCCCCAGAAGCCCGATGCTGA
GCGCCAGACAGACGAAGAGAAGGAGGAGCTGAAGAAACCCAAAAAGGAGGACAGCAGCCCCAAGGAGGAGACCGA
CAAGTGGGCACTGGAGAAGGGCAAGGACCACAAAGAGCCCCGAAAGGGCGAGGAGTTGGAGGAGGAGTGGACGCC
TACGGAGAAAGTCAAGTGTCCCCCATTTGGGATGGAGTACACCGTATTGAGGACAACCAGATCCGAGCCTCCTC
CATGCTGCGCCACGGCCTGGGGGCACAGCGCGGCGCGCTCAACATGCAGACCGGTGCCACTGAGGACGACTACTA
TGATGGTGCCTGGTGTGCCGAGGACGATGCCAGGACCCAGTGGATAGAGGTGGACACCAGGAGGACTACCCGGTT
CACAGGCGTCATCACCCAGGGCAGAGACTCCAGCATCCATGACGATTTTGTGACCACCTTCTTCGTGGGCTTCAG
CAATGACAGCCAGACATGGGTGATGTACACCAACGGCTATGAGGAAATGACCTTTCATGGGAACGTGGACAAGGA
CACACCCGTGCTGAGTGAGCTCCAGAGCCGGTGGTGGCTCGTTTCATCCGCATCTACCCACTCACCTGGAATGG
CAGCCTGTGCATGCGCCTGGAGGTGCTGGGGTGTCTGTGGCCCCGTCTACAGCTACTACGCACAGAATGAGGT
GGTGGCCACCGATGACCTGGATTTCGGGCACCACAGCTACAAGGACATGCGCCAGCTCATGAAGGTGGTGAACGA
GGAGTGGCCACCATCACCCGCACTTACAGCCTGGGCAAGAGCTCACGAGGCCTCAAGATCTATGCCATGGAGAT
CTCAGACAACCTGGGGAGCATGAAGTGGGGGAGCCGAGTTCGGCTACACTGCTGGGATCCATGGCAACGAGGT
GCTGGGCCGAGAGCTGTTGTCTGCTCATGCAGTACCTGTGCCGAGAGTACCGCGATGGGAACCCACGTGTGCG
CAGCCTGGTGAGGACACACGCATCCACCTGGTGCCCTCACTGAACCTGATGGCTACGAGGTGGCAGCGCAGAT
GGGCTCAGAGTTTGGGAACGGGCGCTGGGACTGTGGACTGAGGAGGGCTTTGACATCTTTGAAGATTTCCCGGA
TCTCAACTCTGTGCTCTGGGGAGCTGAGGAGAGGAAATGGGTCCCTACCGGTCCCCAACATAACTTGCCCAT
CCCTGAACGCTACCTTTGCCAGATGCCACGGTATCCACGGAGGTCCGGGCCATCATTGCCTGGATGGAGAAGAA
CCCCTTCGTGCTGGGAGCAAATCTGAACGGCGGCGAGCGGCTAGTATCCTACCCCTACGATATGGCCCGCAGCC
TACCCAGGAGCAGCTGCTGGCCGAGCCATGGCAGCAGCCGGGGGGAGGATGAGGACGAGGTCTCCGAGGCCCA
GGAGACTCCAGACCAGCCATCTTCGGTGGCTTGCCATCTCCTTCGCCTCCGCACACCTCACCTTGACCGAGCC
CTACCGCGGAGGCTGCCAAGCCCAGGACTACACCGCGGCGCATGGGCGATCGTCAACGGGGCCAAGTGGAAACCCCG
GACCGGGACTATCAATGACTTCAGTTACCTGCATACCAACTGCCTGGAGCTCTCCTTCTACCTGGGCTGTGACAA
GTTCCCTCATGAGAGTGAGCTGCCCCGCGAGTGGGAGAACAAAGGAGGCGCTGCTACCTTCATGGAGCAGGT
GCACCGCGGCATTAAGGGGGTGGTGACGGACGAGCAAGGCATCCCCATTGCCAACGCCACCATCTCTGTGAGTGG
CATTATCACGGCGTGAAGACAGCCAGTGGTGGTGATTACTGGCGAATCTTGAACCGGGTGAGTACCGCGTGAC
AGCCCACGCGGAGGGCTACACCCGAGCGCCAAGACCTGCAATGTTGACTATGACATCGGGGCCACTCAGTGCAA
CTTCATCTGGCTCGCTCCAATGGAAGCGCATCCGGGAGATCATGGCCATGAACGGGAACCGGCCATCCCCACA
CATAGACCCATCGCGCCCTATGACCCCCAACAGCGACGCTGCAGCAGCGACGCTACAACACCGCCTGCGGCT
TCGGGCACAGATGCGGCTGCGGCGCCTCAACGCCACCACCCTAGGCCCCACACTGTGCTTCCACGCTGCC
CCCTGCCCCCTGCCACCACCTGAGCACTACCATAGAGCCCTGGGGCCTCATACCGCCAACCACCGCTGGCTGGGA
GGAGTCGGAGACTGAGACCTACACAGAGGTGGTGACAGAGTTTGGGACCGAGGTGGAGCCGAGTTTGGGACCAA
GGTGGAGCCCCGAGTTTGAACCCAGTTGGAGCCTGAGTTTGAACCCAGCTGGAACCCGAGTTTGAAGAGGA
GGAGGAGGAGAAAGAGGAGGAGATAGCCACTGGCCAGGCATTCCCCTTCACAACAGTAGAGACCTACACAGTGAA

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FIGURE 2248B

CTTTGGGGACTTCTGAGATCAGCGTCCTACCAAGACCCAGCCCAACTCAAGCTACAGCAGCAGCACTTCCCAAG
CCTGCTGACCACAGTCACATCACCATCAGCACATGGAAGGCCCTGGTATGGACACTGAAAGGAAGGGCTGGTC
CTGCCCCCTTTGAGGGGGTGAAACATGACTGGGACCTAAGAGCCAGAGGCTGTGTAGAGGCTCCTGCTCCACCTG
CCAGTCTCGTAAGAGATGGGGTTGCTGCAGTGTTGGAGTAGGGGCAGAGGGAGGGAGCCAAGGTCACTCCAATAA
ACAAGCTCATGGC

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FIGURE 2249

GTTTCCCTCTGCGTTGCTCCGCGCTGCTGGAGGCTGTCGTCCCAATGCTCCCCAAACGGCGGCGAGCGCGGGTC
GGGTCCCTTAGCGGCGATGCCGCTTCCTCCACGCCGCCCTCGACGCGCTTCCCGGGAGTCGCCATCTACCTGGTC
GAGCCTCGCATGGGTGCGAGCCGCCGGGCTTCCTCACAGGCCTGGCGCGCTCCAAAGGCTTCCGCGTCTTGAC
GCCTGCAGCTCCGAAGCGACACATGTTGTGATGGAAGAGACCTCAGCAGAGGAGGCCGTGAGCTGGCAGGAGCGC
AGGATGGCAGCTGCTCCCCGGGTTGCACCCCCCAGCTCTGCTGGACATAAGCTGGTTAACAGAGAGCCTGGGA
GCTGGGCAGCCTGTACCTGTGGAGTGCCGGCACCGCCTGGAGGTGGCTGGGCCAAGGAAGGGGCTCTGAGCCCA
GCATGGATGCCCTGCTATGCTGCCAGCGCCTACGCCCTCACACACCACAACACTGGCCTCTCCGAGGCTCTG
GAGATACTGGCCGAGGCAGCAGGCTTTGAAGGCAGTGAGGGCCGCTCCTCACCTTCTGCAGAGCAGCCTCGGTG
CTCAAGGCCCTTCCAGCCCTGTCACAACCTGAGCCAGCTGCAGGGGCTTCCCCACTTTGGAGAACACTCCTCT
AGGGTTGTCCAGGAGCTGCTGGAGCATGGAGTGTGTGAGGAGGTGGAGAGAGTTCCGGCGCTCAGAGAGGTACCA
ACCATGAAGCTCTTCACCCAGATCTTCGGGGTCCGGTGTGAAGACTGCTGACCGGTGGTACCGGGAAGGACTGCGA
ACCTTAGATGACCTCCGAGAGCAGCCCCAGAACTAACCCAACAGCAGAAAGCGGGGCTCCAGCACCACCAGGAC
CTGAGCACCAGTCTGCGGTCCGATGTAGATGCCCTGCAGCAGGTGGTGGAGGAAGCTGTGGGGCAGGCCCTG
CCTGGGGCCACCGTCACGCTGACCGGCGGCTTCCGAGGGGGAAGTTGCAGGGCCATGACGTGGACTTCTCTATC
ACCCACCCAAGGAGGGTCCAGGAGCGGGGCTGCTGCCTAGAGTGTGTGCCGCTGCAGGACCAGGGCCTCATC
CTGTACCACCAGCACCAGCACAGCTGCTGTGAGTCCCCACCCGCTGGCCCAACAGAGCCACATGGACGCTTTT
GAGAGAAGTTTCTGCATTTTCCGCCTACCACAACCTCCAGGGGTGCTGTGGGGGATCCACGAGGCCCTGCCCA
TCCTGGAAGGCGTGAGAGTGGACTTGGTAGTTGCACCCGTGAGCCAGTTCCCTTTCGCCCTGCTCGGTTGGACT
GGCTCCAAGCTTTTCCAGCGGGAGCTGCGCCGCTTCAGCCGGAAGGAGAAGGGCCTGTGGCTGAACAGCCATGGG
CTGTTTGACCCGAGCAGAAGACATTTTCCAAGCGGCTTCAGAGGAAGACATCTTCAGACACCTGGGCCTTGAG
TACCTTCTCCAGAGCAGAGAAACGCCTGAGCCTGCCTGTGTCCCCACTTCCACTCAGGAAATTGGGCTGCCCC
CAACCTGGCCACTGAATGTCTCCAGGCAGATATGCTGCCCCCTGACCCCCACCTTACCCCTCCCCGCCAAGGCC
TGGCTCTTCCGGAGGTCAATTGTGCTGCAGGATCAGTTGAGCCCCCTGCTGGTGTGCTGCAGGGTGTGATGAGGT
GGGAGCCCTCAGTGCCAGCCTCATCACTGTGTGACCCTGGGTCTGCTCTTAGCCTCCCCATGGCTCACGTTCCCTG
CCCTGGATGGGATGTGAGTGGGGCCACATCGTGGAGCTGTGGTGGGGCTGCAGTCATGAATGGCAAGTGGTCC
CTGATGTGCAGTGTCTCATTAGTTGCACTGCAGTTAACTGTGGCTCCTGCAGGGCACCTGCCCAGAATGCCAG
AAGAGAACCATGCATACCTGCACTGCATTTGAGAGCCATGAGCTGGAGGCTGTGGTTTCGTGCCAGCAAGGAGCCT
ACTGTCTGGTGTGCTGTAGGCATCTGGAGAGGGAGAGGGCCTGGGTAGGAGCTGGGAGGAAGATAATTTTCAACT
ATGGGGCTTCACTACTGCAGCGCCCCGAGCCAGGCTCTGTGCTTTCGCCTTTAAGGCCTGTTCTCAGCACAAATGT
CTCAAAAATAGGTCATATCCTGCCACTCCCGTCGAGAGCCCTTTAATGGTTCCAAACCCTAAGTCCACACATAG
CCCCTGGCTCTGGCATCTCTCCAGCCCCACTGGCCCCGAGCTGCTTGACTCACCGGCTTCTATTGATGCACCC
AGGCCCCCTTGTGGCCAACTCCCTCCCTTCTCACTGAGGCAGAAGCACTGAGGTGGGCTGGACATGGGTGCCCT
CCAGTCCCTCATATCCCCAGGCACACTCTGGCCTCAGGTTTGGCCTGGCCATGTCTATCTACCTGGAGTGGGCC
CTCCCTTCTTCAGGCCTTGAATCAAAAGCCACTTTGTAGGCGAGGATTCCCAGACCACTCATCACATTAATA
AATATTTTGAACATGCAGT

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FIGURE 2250

MLPKRRRARVGSPSGDAASSTPPSTRFPGVAIYLVEPRMGRSRRRAFLTGLARSKGFRVLDACSSEATHVMEETS
AEEAVSWQERRMAAAPPGCTPPALLDISWLTESLGAGQVPVVECRHRLEVAGPRKGPLSPAWMPAYACQRP TPLT
HHNTGLSEALEILAEAAAGFEGSEGRLLTFCRAASVLKALPSPVTILSQLQGLPHFGEHSSRVVQELLEHGVCCEV
ERVRRSERYQTMKLTQIFGVGVKTADRWYREGLRTLDDLREQPKLTQQQKAGLQHHQDLSTPVLRSDDVDALQQ
VVEEAVGQALPGATVTLTGGRGKLQGHVDVFLITHPKEGQEAGLLPRVMCRLQDQGLILYHQHQHSCCESPTR
LAQQSHMDAFERSFCIFRLPQPPGAAVGGSTRPCPSWKAVRVDLVVAPVSQFPFALLGWTGSKLQRELRRFSRK
EKGLWLNSHGLFDPEQKTFQAASEEDIFRHLGLEYLPPPEQRNA

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FIGURE 2251

GGCACGAGGGCGGAGACTGCGGGGCGGGCCATGGCGGCGAACCTGAGCCGGAACGGGGCCAGCGCTGCAAGAGGCC
TACGTGCGGGTGGTCACCGAGAAGTCCCCGACCGACTGGGCTCTCTTTACCTATGAAGGCAACAGCAATGACATC
CGCGTGGCTGGCACAGGGGAGGGTGGCCTGGAGGAGATGGTGGAGGAGCTCAACAGCGGGAAGGTGATGTACGCC
TTCTGCAGAGTGAAGGACCCCAACTCTGGACTGCCCAAATTTGTCTCATCACTGGACAGGCGAGGGCGTGAAC
GATGTGCGGAAGGGAGCCTGTGCCAGCCACGTGAGCACCATGGCCAGCTTCCTGAAGGGGGCCATGTGACCATC
AACGCACGGGGCGAGGAGGATGTGGAGCCTGAGTGCATCATGGAGAAGGTGGCCAAGGCTTCAGGTGCCAACTAC
AGCTTTTACAAGGAGAGTGGCCGCTTCCAGGACGTGGGACCCAGGCCCCAGTGGGCTCTGTGTACCAGAAGACC
AATGCCGTGTCTGAGATTAAAAGGGTTGGTAAAGACAGCTTCTGGGCCAAAGCAGAGAAGGAGGAGGAGAACCGT
CGGCTGGAGGAAAAGCGGCGGGCCGAGGAGGCACAGCGGCAGCTGGAGCAGGAGCGCCGGGAGCGTGAGCTGCGT
GAGGCTGCACCGCGGAGCAGCGCTATCAGGAGCAGGGTGGCGAGGCCAGCCCCAGAGCAGGACGTGGGAGCAG
CAGCAAGAAGTGGTTTCAAGGAACCGAAATGAGCAGGAGTCTGCCGTGCACCCGAGGGAGATTTTCAAGCAGAAG
GAGAGGGCCATGTCCACCACCTCCATCTCCAGTCTCAGCCTGGCAAGCTGAGGAGCCCCCTTCCTGCAGAAGCAG
CTCACCCAACAGAGACCCACTTTGGCAGAGAGCCAGCTGCTGCCATCTCAAGGCCAGGGCAGATCTCCCTGCT
GAGGAGCCGGCGCCAGCACTCCTCCATGTCTGGTGCAGGCAGAAGAGGAGGCTGTGTATGAGGAACCTCCAGAG
CAGGAGACCTTCTACGAGCAGCCCCACTGGTGCAGCAGCAAGGTGCTGGCTCTGAGCACATTGACCACCACATT
CAGGGCCAGGGGCTCAGTGGGCAAGGGCTCTGTGCCCGTGCCCTGTACGACTACCAGGCAGCCGACACACAGAG
ATCTCCTTTGACCCCGAGAACCTCATCACGGGCATCGAGGTGATCGACGAAGGCTGGTGGCGTGGCTATGGGCCG
GATGGCCATTTTGGCATGTTCCCTGCCAACTACGTGGAGCTCATTGAGTCGAGGCTGAGGGCACATCTTGCCCTTC
CCCTCTCAGACATGGCTTCCTTATTGCTGGAAGAGGAGGCTGGGAGTTGACATTGAGCACTCTTCCAGGAATAG
GACCCCAAGTGAAGATGAGGCCTCAGGGCTCCCTCCGGCTTGGCAGACTCAGCCTGTCACCCCAAATGCAGCAAT
GGCCTGGTGATTCCACACATCCTTCCTGCATCCCCGACCCTCCCAGACAGCTTGGCTCTTGCCCTGACAGGA
TACTGAGCCAAGCCCTGCCTGTGGCCAAGCCCTGAGTGGCCACTGCCAAGCTGCGGGGAAGGGTCTGAGCAGGG
GCATCTGGGAGGCTCTGGCTGCCTTCTGCATTTATTTGCCTTTTTTCTTTTCTTCTTGCTTCTAAGGGGTGGTGG
CCACCACTGTTTAGAATGACCCTTGGGAACAGTGAACGTAGAGAATTGTTTTAGCAGAGTTTGTGACCAAAGTC
AGAGTGGATCATGGTGGTTTGGCAGCAGGGAATTTGTCTTGTGGAGCCTGCTCTGTGCTCCCACTCCATTTCT
CTGTCCCTCTGCCTGGGCTATGGGAAGTGGGGATGCAGATGGCCAAGCTCCCACCCTGGGTATTCAAAAACGGCA
GACACAACATGTTCTCCACGCGGCTCACTCGATGCCTGCAGGCCCCAGTGTGTGCCTCAACTGATTCTGACTTC
AGGAAAAGTAACACAGAGTGGCCTTGGCCTGTTGTCTTCCCCTATTTTCTGTCCCAGCTCATCCGTGTCTCTGAA
GAACAAATATGCTTTTGGACCACGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2252

MAANLSRNGPALQEAYVRVTEKSPDWDALFTYEGNSNDIRVAGTGEGGLEEMVEELNSGKVMYAFCRVKDPNSG
LPKFVLINWTGEGVNDVRKGACASHVSTMASFLKGAHVTINARAEEDVEPECIMEKVAKASGANYSFHKESGRFQ
DVGPQAPVGSVYQKTNAVSEIKRVGKDSFWAKAEKEEENRRLEEKRAEEAQRQLEQERRERELREAAARREORYQ
EQGGEASPOSRTWEQQQEVSRNRNEQESAVHPREIFKQKERAMSTTSISSPQPGKLRSFPLQKQLTQPETHFGR
EPAAAI SRPRADLP AE EPAPSTPPCLVQAE EEA VYE EPP E QET FYEQPPLVQQQGAGSEHIDHHIQGQGLSGQGL
CARALYDYQAADDTEISFDPENLITGIEVIDEGWWRGYGPDGHFGMFPANYVELIE

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FIGURE 2253

GGGGAGAGCGGGTGTTTGAAGGCTCCGCGGACCGGCATAAGGAGCGGGGGGGGGTCCGTGACCTCCGGCTGCT
CGGAGTGAACAGGCGGCCAGGAAAGAAGCGGGCCCTGAACACCATGATCCCTTTGGAGAAGCCAGGCAGCGGGCG
TCCTCCCCAGGCGCCACCTCAGGCTCGGGGCCGGGCAGGCCGGGGTCTGAGCGGGCCGTGCCGGCCGCCCGCCG
CCCCAGGCCCGGGGCTGCTGACAGAGATACGCGCCGTGGTGCACCCAGGCCCTTCCAGGACGGCTACAGCCTG
TGCCCGGGCCGGGAGCTGGGCAGGGGGAATTTGCAGTGGTGAGAAAATGTATAAAGAAAGATTCTGGGAAAAGAA
TTTGCTGCAAAGTTCATGAGAAAAAGAAGAAAAGGCCAAGATTGTCGGATGGAATAATTTCATGAGATTGCTGTA
CTTGAAC TAGCACAAGACAATCCTTGGGTCAATTAATTTACATGAAGTTTATGAGACTGCATCAGAAATGATCTTA
GTTCTGGAATATGCTGCTGGGGGTGAAATCTTTGACCAGTGTGTTGCAGACAGAGAAGAAGCCTTTAAAGAAAAA
GATGTTCAAAGACTTATGCGACAGATTTTAGAAGGTGTTCACTTTTTACACACTCGTGATGTAGTTCATCTTGAT
TTGAAGCCTCAGAATATTCTGTTGACAAGTGAATCTCCATTGGGTGACATTAAGATTGTTGATTTTGGCCTTTCA
AGAATATTGAAGACAGTGAAGAGCTCCGAGAAATATGGGTACCCCTGAATATGTGGCTCCTGAAATCTTAGT
TATGATCCTATAAGCATGGCAACAGATATGTGGAGCATTGGAGTGTTAACATATGTCATGCTTACAGGAATATCA
CCTTCTTAGGCAATGATAACAAGAAACATTCTTAAACATCTCACAGATGAATTTAAGTTATTCTGAGGAAGAA
TTTGATGTTTTGTCTGAGTCGGCTGTTGATTTTCATCAGGACACTTTTAGTTAAGAAACCTGAAGATCGAGCCACT
GCTGAAGAATGTCTAAAGCACCCCTGGTTGACACAGAGCAGTATTCAAGAGCCTTCTTTCAGGATGGAAGGCCA
CTAGAAGAAGCAAATGCCCTCCAAGAAGGTCATTCTGTGCTGAAATTAATTCGATACCGACAAATCAGAAACC
AAGGAATCCATTGTAACCGAAGAGTTAATTGTAGTTACTTCATATACTCTAGGACAATGCAGACAGTCTGAAAA
GAGAAAAATGGAGCAAAGGCCATTTCCAAACGATTTAAATTTGAGGAACCTTTGCTACAAGAAATTCAGGAGAA
TTTATCTACTGAGCAATATTTCCCTTTAGAACTTCAAGATTCTACATTGAAAATGTTAATATATTTATGGACC
TCIGGCCAAATGGTACATGTACTGGAAGTGGATAACCGATATCACTTACACAAAACAAAATAACTTTGTCAAAT
TGTGGAGTTAGGTGGAAGCCAGATTTTAAAAAGTTGCCAACCAGGAGATTTAACAGGTACAGTTACCCGTTTCAAT
GTTATTTTAAAGAAGGGAGATGTTGGCACCTTTGAATTCATACCTGTTTCTCCAGAATGAGAATTTGTGTACA
AAGATAATTGTATTCACTTTCTTTAAAAATCCAAGTAAAAGTGCCAAAACCTACACTTCTGTAATCTCTTGCAT
TATTCATATGTGTATCTATATCTGCATAATGTTTGTTAATGTCTACTAAAATGCTACTTTTTCACTTTGGATT
GTTTTTGGCAAAATTTTAGTCTAAACAGACATCTAAATTTTCGAGACTTAGAATAACATTCACTAAAGTTTGATA
ATGTCTTTTTTAAATATTTTCTTACTGCTTTATAGTGACTTGATTTGGTTTTCTGTTGTGTTTTTGCTAAATACT
AGTAACATATCAGTGAAAAACCTAATTTTTTTCTCTTCAATGTCACTAGTAAGAGAGGTGGTAATTTTTTCACC
TCTGAAATTAATCTGGGTTTAGGTGTCAGCTCTTGAGCTGCTTCCCTCATCACACCACACTCACATGCATCTGTT
CTCTCTCACACTCTATACCCCTGCCACTTCTTGGCACCTCCCCCATGCTTGTCAATTAATTTTGGCCACTTGTA
GGTATCAGTGTGATCTGATCAACACTCTGGTTACCTTGGTCAGTGAAAAGATGCTACTATATTGCTTTTGTCCCA
AAGTGAGTAAAATCCCCTAGAGCAGAGAGAGAGAGAGAGAGAGAGAGTGTCTTCATGCCAACCACAGCCTGTTTC
TGCTGAGTTTCTTATCAGCCCTCAAGCTATGCTAGGAAAAGTTATAAAATGCCAAAATATTTATAACATTTACT
TTGTCCATAAAAAATTTACATTGGATACTCTGTAAGTAGGAGGTACTTTGTCCCAAAAAGATGTATAAGAATGTA
CTAATAGTTTTATTTGATTAGGATTGAACAGTTCAGTTGTATCTATGCCCCACAGTGACCAGTAAAGTCCAATTA
AAATATGGAAATGTAAAGTGATGCCGAATACCTTAAAGTAACTAATTATCTTACACACAAAAGGCTCAGTGC
ATTAATATTTTGCTATC

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FIGURE 2254

ATGGCGGAGCGCGGGTACAGCTTTTCGCTGACTACATTACAGCCCGTCTGGTAACTTGTCCAGATTGAATATGCT
TTGGCTGCTGTAGCTGGAGGAGCCCCGTCCGTGGGAATTAAAGCTGCAAATGGTGTGGTATTAGCAACTGAGAAA
AAACAGAAATCCATTCTGTATGATGAGCGAAGTGACACAAAGTAGAACCAATTACCAAGCATATAGGTTTGGTG
TACAGTGGCATGGGCCCCGATTACAGAGTGCTTGTGCACAGAGCTCGAAAAGTAGCTCAACAATACTATCTTGTG
TACCAAGAACCCATTCTACAGCTCAGCTGGTACAGAGAGTAGCTTCTGTGATGCAAGAATATACTCAGTCAGGT
GGTGTTTCGTCCATTGGAGTTTCTTTACTTATTTGTGGTTGGAATGAGGGACGACCATAATTTATTTTCAGTCAGAT
CCATCTGGAGCTTACTTTGCCGAAAGCTACAGCAATGGGAAAGAACTATGTGAATGGGAAGACTTTCCTTGAG
AAAAGATATAATGAAGATCTGGAACCTTGAAGATGCCATTACATACAGCCATCTTAACCCTAAAGGAAAGCTTTGAA
GGGCAAATGACAGAGGATAACATAGAAGTTGGAATCTGCAATGAAGCTGGATTTAGGAGGCTTACTCCAACGTAA
GTTAAGGATTACTTGGCTGCCATAGCATTAACAATGAAGTGACTGAAAAATCCAGAAATTCAGATAATCTATCTAC
TTAAACATGTTTAAAGTATGTTTTGTTTGCAGACTTTTGCATACTTATTTCTACATGGTTTAAATCGACTGTT
TTTAAATGACACTTATAAATCCTAATAAACTGTTAAACCC

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FIGURE 2255

MAERGYSFSLTTFSPSGKLVQIEYALAAVAGGAPSVGIKAANGVVLATEKKQKSILYDERSVHKVEPITKHIGLV
YSGMGPDYRVLVHRARKLAQQYYLVYQEFIPTAQLVQRVASVMQEYTSQGGVRPFGVSLICGWNEGRPYLFQSD
PSGAYFAWKATAMGKNYVNGKTFLEKRYNEDLEDAIHTAILTLKESFEGQMTEDNIEVGICNEAGFRRLTPTE
VKDYLAAlA

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FIGURE 2256

GCTCGGCGCCCTCTTCCCTGCAAACCATGTTTGCCAAAGGCAGAGGCTCGGCGGTGCCCTCGGATGGGCAGGCTT
GGGAAAAGTTAGCTTCATACGTCTACGAATATTTACTGCACGTAAGAGTACAGAAATCTGCAGAGACCTTCTTGT
CGGAGATTTCGATGGGAAAAAACATCACGTTGGGAGAACCGCCTGGGTTTTTGCACCTCGTGGTGGTGTATTG
GGGACCTTTACTGTGCAGCTCCTCAAAGGAGAGACACTTGTGAACATTCAAGTGAAGCAAAAGCCTTTCATGATT
ATAGTGCAGCAGCTGCCCCGAGCCCCGTGCTTGGCAACATTCCCCCAACGATGGGATGCCGGGAGGCCCCATCC
CGCCAGGTTTTCTTTCAGGGTCCTCCGGGGTCACAGCCCTCGCCGCACGCACAGCCTCCACCTCACAATCCTAGCA
GCATGATGGGACCCACAGTCAGCCTCCGGGAGGAGTTCTTGGGACACAGCCATTGCTGCCCAATTCTATGGATC
CCACACGACAACAAGGCCACCCCAACATGGGAGGATCAATGCAGAGAATGAACCCTCCCCGAGGCATGGGGCCCA
TGGGTCCCGGCCACAGAATTACGGCAGCGGCATGAGACCACCACCAACTCCCTCGGCCCCGCATGCCCGGGAT
TAACATGGGCCCCGGGAGCTGGCAGACCCTGGCCCAATCCTAACAGTGCTAACTCAATTCCATATTCTCTCATC
ACCTGGTACCTATGTGGGACCCCCGGTGGTGGCGGCCCTCCAGGAACACCCATTATGCCAGTCCCGCAGATTCA
ACAAATTCCAGTGACAACATCTACACAATGACCTGGCGGCAGGTCCAATTCCCGATGGGTCCCGGCTCGGACGG
TCCGATGGGCGGCATGGGTGGCATGGAGCCACACCACATGAATGGATCATTAGGGTCAGGCGACATAGACGGACT
TCCAAAAAATTCTCCTAACAACATAAGTGGCATTAGCAATCCTCCAGGCACCCCTCGAGATGACGGCGAGCTAGG
AGGGAGCTTCTCCACTCCTTTTCAAGATGACAATTATTCTCCAAGCATGACGATGAGTGTGTGATCCCCCTTCT
CCGAGACGCTGAGAGAGCCGGCATTGCAGGCGGGAAGACGCCAGAAATTATGCAAGAAGTGAGGTGTTATTATCC
AGGAGCTGGTGGGAGGGCATCTCCCTGCTCCCTAAACCCCTCCACCCCATCCACGCCCCCTACCTTTCCCA
ATTTTAGTTTCATGCAATAAAAAGGCCAAACTTTTATTCCATAAAAC

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FIGURE 2257

MFAKGRGSAVPSDGQAWEKLASVYVEYLLHVRVQKSAETFLSEIRWEKNITLGEPPGFLHSWWCVFGDLYCAAPQ
RRDTCEHSSEAKAFHDYSAAAAPSPVLGNIPPNDGMPGGPIPPGFFQPFMSPRYVGGPGPPIRMGNQPPGGVLGT
QPLLNSMDPTRQQGHFNMGGSMQRMNPPRGMGPMGPGPQNYGSGMRPPPNLSLGPCCPGLTWARELADPGPIILTV
LTQFHIPPHHLVPMWDPRWWRPSRNTHYAQSRRFNKFQ

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FIGURE 2258

GGCGGGTTCGCGCCCCGAAGGCTGAGAGCTGGCGCTGCTCGTGCCCTGTGTGCCAGACGGCGGAGCTCCGCGGCC
GGACCCCGCGGCCCGCTTTGCTGCCGACTGGAGTTTGGGGGAAGAACTCTCCTGCGCCCCAGAGGATTTCTTC
CTCGGCGAAGGGACAGCGAAAGATGAGGGTGGCAGGAAGAGAAGGGCGCTTTCTGTCTGCCGGGTGCGAGCGCG
AGAGGGCAGTGCCATGTTCTCTCCATCCTAGTGGCGCTGTGCCTGTGGCTGCACCTGGCGCTGGGCGTGCGCGG
CGCGCCCTGCGAGGCGGTGCGCATCCCTATGTGCCGGCACATGCCCTGGAACATCACGCGGATGCCAACACCT
GCACCACAGCACGCAGGAGAACGCCATCCTGGCCATCGAGCAGTACGAGGAGCTGGTGGACGTGAAGTGCAGCGC
CGTGCTGCGCTTCTTCTCTGTGCCATGTACGCGCCCATTTGCACCCTGGAGTTCCTGCACGACCCATCAAGCC
GTGCAAGTCGGTGTGCCAACGCGCGCGCGAGCTGCGAGCCCCCTCATGAAGATGTACAACCACAGCTGGCCCGA
AAGCCTGGCCTGCGACGAGCTGCCTGTCTATGACCGTGGCGTGTGCATCTCGCCTGAAGCCATCGTCACGGACCT
CCCGGAGGATGTTAAGTGGATAGACATCACACCAGACATGATGGTACAGGAAAGGCCCTTTGATGTTGACTGTAA
ACGCCTAAGCCCCGATCGGTGCAAGTGTAAAAGGTGAAGCCAACCTTTGGCAACGTATCTCAGCAAAAACACAG
CTATGTTATTTCATGCCAAAATAAAAGCTGTGCAGAGGAGTGGCTGCAATGAGGTCACAACGGTGGTGGATGTAAA
AGAGATCTTCAAGTCTCATCACCATCCCTCGAAGTCAAGTCCCGCTCATTACAAATTCTTCTTGCCAGTGTC
ACACATCCTGCCCCATCAAGATGTTCTCATCATGTGTACGAGTGGCGCTCAAGGATGATGCTTCTTGAAAAATTG
CTTAGTTGAAAAATGGAGAGATCAGCTTAGTAAAAGATCCATACAGTGGGAAGAGAGGCTGCAGGAACAGCGGAG
AACAGTTTCAGGACAAGAAGAAAACAGCCGGGCGCACCAAGTCGTAGTAATCCCCCAAACCAAAGGGAAAGCCTCC
TGCTCCCAAACAGCCAGTCCCAAGAAGAACATTAAAGTAGGAGTGGCCAGAAGAGAACAAACCCGAAAGAGT
GTGAGCTAACTAGTTTCCAAAGCGGAGACTTCCGACTTCCTTACAGGATGAGGCTGGGCATTGCCTGGGACAGCC
TATGTAAGGCCATGTGCCCTTGCCCTAACAACCTCACTGCAGTGCTCTTCATAGACACATCTTGCAGCATTTTTC
TTAAGGCTATGCTTCAGTTTTTCTTTGTAAGCCATCAAGCCATAGTGGTAGGTTTGCCCTTTGGTACAGAAGG
TGAGTTAAAGCTGGTGGAAAAGGCTTATTGCATTGCATTAGAGTAACCTGTGTGCATACTCTAGAAGAGTAGGG
AAAATAATGCTTGTTACAATTCGACCTAATATGTGCATTGTAAAATAAATGCCATATTTCAAACAAAACACGTAA
TTTTTTTACAGTATGTTTTATTACCTTTTGATATCTGTTGTTGCAATGTTAGTGATGTTTTAAATGTGATCGAA
AATATAATGCTTCTAAGAAGGAACAGTAGTGGAATGAATGTCTAAAAGATCTTTATGTGTTTATGGTCTGCAGAA
GGATTTTTGTGATGAAAGGGGATTTTTTGAAAAATCTAGAGAAGTAGCATATGGAAAACATAATGTGTCTTTTT
TACAATGACTTCAGCTCTGTTTTTAGCTAGAACTCTAAAAACAAAATAATAATAAGAAAAATAATAAAAAAG
GAGAGGCAGACAATGTCTGGATTCCGTGTTTTTGTTTACCTGATTTTCATGATCATGATGCTTCTGTCAACACCC
TCTTAAGCAGCACCAGAAACAGTGAGTTTGTCTGTACCATTAGGAGTTAGGTACTAATTAGTTGGCTAATGCTCA
AGTATTTTATACCCACAAGAGAGGTATGTCACTCATCTTACTTCCAGGACATCCACCCTGAGAATAATTTGACA
AGCTTAAAAATGGCCTTCATGTGAGTGCCAAATTTTGTCTTCTTCATTTAAATATTTTCTTTGCTTAAATACATG
TGAGAGGAGTTAAATATAAATGTACAGAGAGGAAAGTTGAGGTCCACCTCTGAAATGAGAATTACTTGACAGTT
GGGATACTTTAATCAGAAAAAAGAACTTATCTTGCAGCATTTTATCAACAAATTTATAATTGTGGACAATTGG
AGGCATTTATTTTAAAAACAATTTTATTGGCCTTTTGCTAACACAGTAAGCATGTATTCTCTATAAGGCATTCA
ATAAATGCACAACGCCCAAAGGAAATAAATCCTATCTAATCCTACTCTCCACTACACAGAGGTAATCACTATTA
GTATTTTGGCATATTATCTCCAGGTGTTTCTTATGCATTATAAATGATTTGAACAAATAAACTAGGAACCT
GCTATACATGTGTTTCATAACCTGCCTCCTTTGCTTGGCCCTTATTGAGATAAGTTTTCTGTCAAGAAAGCAG
AAACCATCTCATTTCTAACAGCTGTGTTATATCCATAGTATGCATTACTCAACAACTGTTGTGCTATTGGATA
CTTAGGTGGTTTCTTCACTGACAATACTGAATAAACATCTCA

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FIGURE 2259A

GCGTGTGCTGGGGCGAGCGGGAGCGGGCGAGGATGGGCACAGGATAGAGGCAGAGCCACCCACGCCGCCGCGGGCC
CCACGCTGGGCGACAGAGCCTCCAGTTCCTCCCTTCAATGGTGGCGGGTCGCCGAGCTCTGATCGCCGGGAACCCCT
TGCCGCTGCTGTCTCGACCCCCAAGCAGGTATAGACACGTGTGGCCGTTTACGCTGTAGGATCCTCATTCCCAC
TGGCTTTGAACATTTTGGGGACTTACAATGCCGCCACCCGCGGACATCGTCAAGGTGGCCATAGAATGGCCGGGC
GCCTACCCCAAACTCATGGAATTTGATCAGAAAAAACCTGTCTGCAATAATAAAGGAAGTCTGTGATGGGTGG
TCTCTTGCCAACCATGAATATTTTGCACTCCAGCATGCCGATAGTTCAAACCTCTATATCACAGAAAAGAACC GC
AATGAGATAAAAAATGGCACTATCCTTCGATTAACCACATCTCCAGCTCAGAACGCCAGCAGCTCCATGAACGA
ATCCAGTCTCGAGTATGGATGCCAAGCTGGAAGCCCTGAAGGACTTGGCCAGCCTCTCCCGGATGTACGTTT
GCCCAGGAGTTTATAAACCTGGACGGTATCTCTCTCCTCACGCAGATGGTGGAGAGCGGCACTGAGCGATACCAG
AAATTGCAGAAGATCATGAAGCCTTGCTTTGGAGACATGCTGTCTTCACCTGACGGCCTTCGTCGAGCTGATG
GACCATGGCATAGTGTCTGGGATACATTTTCGGTGGCGTTTCATTAAGAAGATAGCAAGTTTTGTGAACAAGTCA
GCCATAGACATCTCGATCCTGCAGCGTCTCTGGCCATTTTGGAGTCGATGGTGTCTCAATAGCCATGATCTCTAC
CAGAAAGTGGCGCAGGAGATCACCATCGGCCAGCTCATTCACACCTGCAAGGGTCAGATCAAGAAATCCAAACC
TATACTATTGCAGTGATTAATGCGCTTTTCTGAAAGGCTCTGATGAGAGGAGGCAGGAGATGGCGAATATTTTG
GCTCAGAAGCAACTGCGTTCCATCATTTTAACACATGTCATCCGAGCCCAGCGGGCCATCAACAATGAGATGGCG
CACCAGCTGTATGTTCTACAAGTGCTCACCTTTAACCTCCTGGAAGACAGGATGATGACCAAAATGGACCCCCAG
GACCAGGCTCAGAGGGACATCATATTTGAACCTTCAAGAATTGCTTTTGATGCTGAGTCTGAACCTAACAACAGC
AGTGGCAGCATGGAGAAACGCAAGTCCATGTACACGCGAGATTATAAGAAGCTTGGGTTTCATTAATCATGTCAAC
CCTGCCATGGACTTCACGCAGACTCCACCTGGGATGTTGGCTCTGGACAACATGCTGTACTTTGCCAAGCACCAC
CAAGATGCCTACATCCGGATTGTGCTTGAGAACAGTAGTCGAGAAGACAAGCATGAATGTCCCTTTGGCCGCAGT
AGTAGAGCTGACCAAGATGCTATGTGAGATCTTGAAGTGGGCGAGTTGCCTAGTGAGACCTGCAACGACTTC
CACCCGATGTTCTTACCCACGACAGATCCTTTGAGGAGTTTTTCTGCATCTGTATCCAGCTCCTGAACAAGACA
TGGAAGGAAATGAGGGCAACTTCTGAAGACTTCAACAAGGTAATGCAGGTGGTGAAGGAGCAGGTTATGAGAGCA
CTTACAACCAAGCCTAGCTCCCTGGACCAGTTCAAGAGCAAACCTGCAGAACCTGAGCTACACTGAGATCCTGAAA
ATCCGCCAGTCCGAGAGGATGAACCAGGAAGATTTCCAGTCCCGCCGATTTTGGAACCTAAAGGAGAAGATTAG
CCAGAAATCTTAGAGCTGATCAAACGCAACGCCTGAACCGCCTTGTTGGAAGGGACCTGCTTTAGGAAACTCAAT
GCCCCGCGGAGGCAAGACAAGTTTTGGTATTGTGGCTTTTCGCCAAATCACAAGTCTGCAATACGGAGACTTA
GAAGAGAGTCTCAGGGAGAAGTGCCCCACGATTCTTGCAGGACAAACTGCCGGTGGCAGATATCAAAGCCGTG
GTGACGGGAAAGGACTGCCCTCATATGAAAGAGAAAGGTGCCCTTAAACAAAACAAGGAGGTGCTTGAACCTCGCT
TTCTCCATCTTGTATGACTCAAACCTGCAACTGAACCTCATCGCTCCTGACAAGCATGAGTACTGTATCTGGACG
GATGGACTGAATGCGCTACTCGGGAAGGACATGATGAGCGACCTGACGCGGAATGACCTGGACACCCTGCTCAGC
ATGGAATCAAGCTCCGCTCCTGGACCTGGAAAACATCCAGATCCCTGACGCACCTCCGCCGATTCCCAAGGAG
CCCAGCAACTATGACTTCGTCTATGACTGTAACCTGAAGTGGCCGGGCCAGACATGCCCCCTCCAAAACCTGGAAC
ACCTAGCTAACAGGAGAGAGGAATGAAAACACACCCACGCCTTGGAACCGTCTTTGGTAAAGGGAAGCTGTGGG
TCCACATTCCTTCAGCATCACCTCTAGCCCTGGCAACTTTCAGCCCTAGCTGGCATCTTGCTCACCGCCCTGA
TTCTGTTCTCGGCTCCACTGCTTCAGGTCACTTCCCATGGCTGCAGTCCACTGGTGGGACAAGAGCAAAGCCCA
CTGCCAGTAAGAAGGCCAAAGGGCCCTTCCATCCTAGCCCTCTGCAGGCATGCCCTTCCCTTCCCTTGGGCAGGAA
AGCCAGCAGCCCCAGACTGCCCAAAACTTGCCACCAGACCAAGGGCAGTGCCCAAGGCCCTGTCTGGAGGA
AATGGCCTAGCTATTTGATGAGAAGACCAAAACCCACATCCTCCTTCCCTCTCTCTAGAATCATCTCGCACCA
CCAGTTACACTTGAATTAAGATCTGCGCTCAAATCTCCTCCACCTCTCTCCCTGCTTTTGCTTGTCTGTTC
TCTTTGGTCCCAAGAGCAGCAGCCGACGCTCCTCGTGATCCTCCCTAGCATAAATTTCCCAAACAGTCCACAGG
TCCCATGCCCACTTTGCGTCTGCACTGTGATCGTGACAAATCTTCCCTCCTCACCAGCTAGTCTGGGGTTTCTC
TCCATGCCCCAGGCCAGAATGCCTTCTTCATTTCCACCCACGCTCCACGCTCTTAGCTGAAAGCACAAATGGT
GAAATGCTAGTCTCGCTCCATCTCTAATAGACTAAACCTAAATGCCTCTAGGACGGACTGTTGCTATCCAAGCG
TTTGGTGTACCTTCTCCTGGGAGGTCTGTGCAACTCAAGTTCCACAGGATGGTCAAGCTGTGACACATCCAA
GTTTACATCAATTGAATTATTACTGGTATTTACAATTTGCAAGAGTTTGGGTTAGTTTTTTTTTTTTTTTGTCT
TTGTTTTTGACAAAAGAGTCTAACATTTTTTGCCAAACAGATATATTTAATGAAAAGAAGAGATACATAAAT
GTGTGAATTTCCAGTTTTTTTTTAATTATTTTAATCCCAAACATCTCCTGAAAATAACATTCCCTTAAACATGC

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FIGURE 2259B

TGTGGAATAAAATGGATTGTGATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2260

CATTAAAGGTGTGCGGCGGGTCTCTGTTACATGGCTCAACTGGAAACCTGTTTCATGAACAAGCTTACTCAGG
AACCATCTGGTGGTATTCCAGCACATTGTTCTTCAGGGGACGACTCTAAGTCGCTTTGTGGTGGCAGCAGCTTA
GAATCAGTATTGTGGTTGGGAAAGATGGACTTACGGGAGCTTGGTAATGCAGGTGGTGAAGGAGCAGCTTATGA
GAGCACTTACAACCAAGCCTAGCTCCCTGGACCAGTTCAAGAGCAAACCTGCAGAACCTGAGCTACACTGAGATCC
TGAAAATCCGCCAGTCCGAGAGGATGAACCAGGAAGATTTCAGTCCCGCCGATTTTGGAATAAAGGAGAAGA
TTCAGCCAGAAATCTTAGAGCTGATCAAACAGCAACGCCTGAACCGCCTTGTTGGAAGGACCTGCTTTAGGAAAC
TCAATGCCCGCGGAGGCAAGACAAGTTTTGGTATTGTGCGCTTCGCCAAATCACAAAGTCCTGCATTACGGAG
ACTTAGAAGAGAGTCCTCAGGAGAAAGTGCCCCACGATTTCCTTGCAAGGACAAACTGCCGGTGGCAGATATCAAAG
CCGTGGTGACGGGAAAGGACTGCCCTCATATGAAAGAGAAAGGTGCCCTTAAACAAAACAAGGAGGTGCTTGAAC
TCGCTTTCTCCATCTTGTATGACTCAAACCTGCCAACTGAACCTTCATCGCTCCTGACAAGCATGAGTACTGTATCT
GGACGGATGGACTGAATGCGTACTCGGGAAGGACATGATGAGCGACCTGACGCGGAATGACCTGGACACCCTGC
TCAGCATGGAAATCAAGCTCCGCCTCCTGGACCTGGAAAACATCCAGATCCCTGACGCACCTCCGCCGATTCCCA
AGGAGCCCAGCAACTATGACTTCGTCTATGACTGTAACTGAAGTGGCCGGGCCCAGACATGCCCTTCCAAAACCT
GGAACACCTAGCTAACAGGAGAGAGGAATGAAAACACACCCACGCCTTGGAACCGTCCTTTGGTAAAGGGAAGCT
GTGGGTCCACATTCCCTTCAGCATCACCTCTAGCCCTGGCAACTTTCAGCCCTAGCTGGCATCTTGCTCACCGC
CCTGATTCTGTTCTCGGCTCCACTGCTTCAGGTCACTTCCCATGGCTGCAGTCCACTGGTGGGACAAGAGCAAA
GCCCCTGCCAGTAAGAAGGCCAAAGGGCCCTTCCATCCTAGCCCTCTGCAGGCATGCCCTTCCCTCCCTTGGGC
AGGAAAGCCAGCAGCCCCAGACTGCCCAAAAACCTTGCCACCAGACCAAGGGCAGTGCCCCAAGGCCCTGTCTG
GAGGAAATGGCCTAGCTATTGATGAGAAGACCAAACCCACATCCTCCTTTCCCTCTCTCTAGAAATCATCTCG
CACCACCAGTTACACTTGAATTAAGATCTGCGCTCAAATCTCCTCCACCTCTCTCCTTGCTTTTGCTTGCTCT
GTTCTCTTTGGTCCCAAGAGCAGCAGCCGACGCTCCTCGTGATCCTCCCTAGCATAAATTTCCCAAACAGTCC
ACAGGTCCCATGCCACTTTGCGTCTGCACTGTGATCGTGACAAATCTTCCCTCCTCACCAGCTAGTCTGGGGTT
TCCTCTCCCTGCCCCAGGCCAGAAGTGCCTTCTTCATTTCCACCCACGCTCCCAGCCTCTTAGCTGAAAGCACAA
ATGGTGAAATCAGTAGTCTCGCTCCATCTCTAATAGACTAAACCTAAATGCCTCTAGGACGGACTGTGCTATCC
AAGCGTTTGGTGTTACCTTCTCCTGGGAGGTCTGTGCAACTCAAGTTCACAGGATGGTCAAGCTGTCAGACA
TCCAAGTTTACATCATTGTAATTATTACTGGTATTTACAATTTGCAAGAGTTTTGGGTTAGTTTTTTTTTTTTT
TTGCTTTGTTTTTGGACAAAAGAGTCTAACATTTTTTGCCAAACAGATATATATTTAATGAAAAGAAGAGATACA
TAAATGTGTGAATTTCCAGTTTTTTTTTAAATTATTTAATCCCAAACATCTTCTGAAAATAACATTCCCTTAAA
CATGCTGTGGAATAAATGGATTGTGATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2261

MQVVKEQVMRALTTKPSSLDQFKSKLQNLSTYELKIROSERMNQEDFQSRPILELKEKIQPEILELIKQORLNR
LVEGTCFRKLNARRRQDKFWYCRSPNHKVLHYGDLEESPOGEVPHDSLQDKLPVADIKAVVTGKDCPHMKEKGA
LKQNKVELELAFSILYDSNCQLNFIAPDKHEYCIWTDGLNALLGKDMMSDLTRNDLDTLLSMEIKRLRLDLENIQ
IPDAPPPIPKEPSNYDFVYDCN

FIGURE 2262

GCACCTCCGGCAGCGGTTCTCAGGCCAAGCCCTTGCACGATGCGCCAGCGAGTTCACAGAAGAAGCTCTTCTGGAGGG
CAGGTGGTGGCCGAGTTCTCTGGCCACGACCCTCTTTGTCTTCATCAGCATCGGTTCTGCCCTGGGCTTCAAATACC
CGGTGGGGAACAACCAGACGGCGGTCCAGGACAACGTGAAGGTGTCTGCTGGCCTTCGGGCTGAGCATGCCACGC
TGGCGCAGAGTGTGGGCCACATCAGCGGCGCCACCTCAACCCGGCTGTACACTGGGGCTGCTGCTCAGCTGCC
AGATCAGCATCTTCCGTGCCCTCATGTACATCATCGCCAGTGCCTGGGGGCCATCGTCGCCACCGCCATCCTCT
CAGGCATCACCTCCTCCCTGACTGGGAACTCGCTTGGCCGAATGACCTGGCTGATGGTGTGAACTCGGGCCAGG
GCCTGGGCATCGAGATCATCGGGACCCTCCAGCTGGTGCTATGCGTGTGGCTACTACCGACCGGAGGCGCCGTG
ACCTTGGTGGCTCAGCCCCCTTGCCATCGGCCTCTCTGTAGCCCTTGGACACCTCCTGGCTATTGACTACACTG
GCTGTGGGATTAAACCTGCTCGGTCTCTTGGCTCCGCGGTGATCACACAACTTCAGCAACCACTGGATTTTCT
GGGTGGGGCCATTTCATCGGGGGAGCCCTGGCTGTACTCATCTACGACTTCATCCTGGCCCCACGCAGCAGTGACC
TCACAGACCGCGTGAAGGTGTGGACCAGCGGCCAGGTGGAGGAGTATGACCTGGATGCCGACGACATCAACTCCA
GGGTGGAGATGAAGCCCAAATAGAAAGGGGTCTGGCCCCGGGCATCCACGTAGGGGGCAGGGGCAGGGGCGGGCGGA
GGGAGGGGAGGGGTGAAATCCATACTGTAGACACTCTGACAAGCTGGCCAAAGTCACTTCCCCAAGATCTGCCAG
ACCTGCATGGTCAAGCCTCTTATGGGGGTGTTTCTATCTCTTTCTTTCTTTCTGTTTCTGGCCTCAGAGCTT
CCTGGGGACCAAGATTTACCAATTACCCACTCCCTTGAAGTTGTGGAGGAGGTGAAAGAAAGGGACCCACCTGC
TAGTCGCCCCCTCAGAGCATGATGGGAGGTGTGCCAGAAAGTCCCCCTCGCCCCAAAGTTGCTCACCGACTCAC
TGCGCAAGTGCTGGGATTCTACCGTAATTGCTTTGTGCCCTTGGGCAGGCCCTCCTTCTTTTCTAACATGCAC
CTTGCTCCCAATGGTGCTTGGAGGGGGAAGAGATCCAGGAGGTGCAGTGGAGGGGGCAAGCTTGTCTCCTTCAG
TTCTGCTTGTCTCCCAAGCCCCCTGACCGCTCGGACTTACTGCTGACCTTGGAAATCGTCCCTATATCAGGGCCTG
AGTGACCTCCTTCTGCAAAGTGGCAGGGACCGGCAGAGCTCTACAGGCCTGCAGCCCCTAAGTGCAAACACAGCA
TGGGTCCAGAAGACGTGGTCTAGACCAGGGCTGCTCTTTCCACTTGCCCTGTGTCTTTCCCCAGGGGCATGACT
GTCGCCACACGCCTCTGCATATATGTCTCTTTGGAGTTGGAATTCATTATATGTTAAGAAAATAAAGGAAAATG
ACTTGTAAAGTC

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FIGURE 2263

MASEFKKKLFWRAVVAEFLATTLFVVISIGSALGFKYPVGNNQTAVQDNVKVSLAFGLSIATLAQSVGHISGAHL
NPAVTLGLLLSCQISIFRALMYIIAQCVGAIVATAILSGITSSLTGNSLGRNDLADGVNSGQGLGIEIIGTLQLV
LCVLATDTRRRDLGGSAPLAIGLSVALGHLLAIDYTGCCINPARSFGSAVITHNFSNHWIFWVGPFIGGALAVL
IYDFILAPRSSDLTDRVKVWTSGQVEEYDLDDADDINSRVEMKPK

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FIGURE 2264A

TCAGTCCCCGTGCACAGACCTGCACAAATGGCTGAGCCTCATCATTCCTGACAGCGAGGAGATCTTGGATGTGCC
AGGCCTAGTGAAGACCAACAATCTCACTGCAGGGCCCGCCAGCCCCAGGGAAGGGGAGGAGTTCTTGCCGCGCC
GACGCCGCCGTGCCCACGGCAACGCGGCCATACTGCGCCGGACAGACCCAGTTGCCTGGTGCTGCGGCCCGGCGT
GGGCCTCGTGGGCAGAGCCAGAGCCAGAGCCATGGACAGCCTCTTCGTGGAGGAGGTGGCCGCCTCCTTGGTCAG
GGAGTTCTCAGCAGAAAGGGCTTAAAGAAGACATGTGTGACCATGGACCAGGAACGCCACGCTCTGACCTCAG
CATAACAACAGAAATGATCTTCGAAAGGTTTTGCATCTTGAATTTCTCTATAAGGAGAAACAAGGCAAAGGAAAA
TCCTCTAAAAACAAGCCTTGAACCTCATCACCAGATACTTTCTGGATCACTTTGGAATACGGCTAACAATTTTAC
TCAAGATACCCCAATCCCTGCACTCTCAGTTCCAAAGAAAAATAACAAAGTGCCATCAAGATGCTCAGAGACTAC
ACTGGTAAATATATATGACCTTTTCAATGAAGATGCAGGATGGAGAATCATATTGTCAGAAACAAGCAAAGCCAG
ACATGACAATCTTGATGGAGATGTACTTGGTAATTTGTATCATCTAAAGGCCCGCACAAAGTAAGCCCAT
GCAGACGGTCCCGGGTGAACTCCTGTGTGACTTCTGCATGGGAGAAGATAGACAAGCTTCACTCGGAGCCTTC
CTTGGATGTGAAGAGGATGGGAGAGAATCCAGGCCAAAGTCTGGTCTGATTGTGCGAGGCATGATGTCTGGGCC
CATCGCCAGCTCCCCACAGGTGAGGAAATCAGGGACAGAGAAGTTAAGCAGCTTGCCACAGGTGACACAGTTGGT
AGGTGGTGATGCAGACTGGAGCGACGGCTTCACCTGTGTCATGAACCTGCTCTCTGATTCTTTTACAGACACTA
TCTGAGACGGTCCCTACCGTCAAGCAGCTCCACCCAACCCCAAGAAGAGAGCCGGAAGGTCCCTGAGCTCTTTGT
CTGCACCCAACAGGACATTCTGGCTTCGAGCAACAGCTCCCCCTCCAGGACCTCCCTGGGTGAGCTTAGTGAAC
GACCGTAGAAAGGCAGAAAACCACTGCCAGCAGCCCTCCCCATCTGCCACAGAAACGGCTGCCCCATGGGACAG
GGCCAGGCCGAGGGATCCCTCCGAGGACACCCAGCAGTGGACGGCAGCAGACACGGACAGGATGCCCTTGAA
GCTCTACTTGCCTGGTGGTAATTCCAGGATGACCCAGGAGAGGCTGGAAAGAGCGTTCAAACGGCAGGGCAGCCA
GCCCCACCTGTCTAGGTATTACAGTAAAGATAAACTGCAAGCCTGTCCCTGGATATCACCTTAGATGCATTGGA
TGCCCTGGGGGAAAGTTTGTGGTATCCCTGGGGTCTCATTCTTAAAGACTGAAGCAGCTCTCTTGTCTTCCC
CAGCGTGTCTTTTCTACGGCCTGCATTGGGTTTTGCTGCATTTCAGACATTTTGGATAATGTACACTTATGGAA
AAATCAGTTGCTGCCGTCTGACAAGGTGGATGGTGAGCTGGGTGCCCTGCGGCTCGAGGATGTGGAGGATGAGTT
GATAAGGGAAGAGGTCTCCTGTGCGCCAGTCCCATCAGTGCTCAAGTTGCAGACAGCATCAAACCAATTGACCT
CTCAGTAGCAAAGGCACCTTCAGATGTGGTGGTGACGAAGAGCTGGGGAATAAGACCCCTCTGCTTGGAGATGT
TAAATGAACATGGATTTAAGGAGCACTTGTCTCCCACTAGCCTTTGCCAATGTGTCCCAGGAGTCAGATCCTG
TGCTAAGCCCCGTGATGCCACAGAGATGAGCTCCTCAAGAAGCCTCTGCACCACAGGGGTGGTCTTGGCGAGT
CCTGGCAGCTGTCCAAGGCTGTGTCTACAGAACTCCTGTTGAAGGAGATAGCAAAGCCGACTGTGCTCAGGG
ACTGCACCTTCAGATGCCACCCGACCCGCTGCCTCGTCTGGCCCTCGCAGACATTGTGTGGCGGCAGGGGG
CCGAGAGAGAGCCGTTGTTGCACTGGCTTCGAGAACACAGCAGTTCAAGTCCAACAGGGAATAACAAAGCAGATGG
AGTCTTAGAAACACTTACGCTTCACAGTTTGACCTGCTATGAGGACCTGGTGACTTTCTTCAACAAAGCATTCA
TCAGAACTTTCCCAAAGACCTGAAGGCCTGGGCACAGCCCTGGGAAATGATCAGGCCCTGGCAGCACCAGATGT
CCCTTGGGTAGGCAATGGGGCTACCTTAGGAACAAAGGAGGCAGTTTGAAGTGGGCCCCATGGCTGCATCCT
GCTCACCTTTTCTGCCATCCTGTCCAGGTCTACAGAGCTGGGCCCTGCTGTGGATTGGGGGAGGACAGTGGGG
GCTCTGTGGCCTCGTGCGCCAGGCTGCCTGCTGCTTCTGACCTTATTAAATGCGTACCAGAGCCAGGG
TGAGGACATCATGGACAGATGTAAACCTAGCCGAGTGCTGCCGACCACTGCCTGCCTGGCCACTTCATTGTCAGA
GGCCCCAAGAAGAGTCGAGAAACAGACCTTTGAGGGAGCTCTCACAAGCCCCAAGGATGCTCAGGGTCTTGGGGT
CAGGACAGCTCTGAACCAGACCTGGGCAGCACTGAGCATGGGCTGCTCTGGTGCCTCAGTGGAGCACAGACCTGG
CCAGGTCAATTGAGGCCCTGAGAAGGGTCCAGTGTGACCCCCAGGGCCGTGTGTGCCCCAGGGTTGTGTGTAACC
CCCTGGGTGAGGGGCCCTCAATGGACCTCACAGGGGCAAAGAAGACCCTGAGCACAGTTGCTTGTCTCATCAGTCTT
CTCAGTCACCCAGGAACCTTGTCAATCTGCTCCTGACTGGGAAAGCTGTGTCCAACGTTTCAACGATGTGGTTGA
GCTGGATTCTGGGGATGGGAACATCACACTTCTCAGAGGCATTGTGTCACGCAGTGATATTGGCTTCTTATCTCT
CTTTGAGCATTACAACATGTGCCAGGTTGGCTGCTTCTGAAGACCCGAGGTTCCCCATCTGGGTGGTTTGCAG
TGAGAGCCACTTCAGCATCCTCTTTAGCCTGCAGCCGGGGCTCCTGCGTGACTGGAGGACTGAGAGGCTCTTTGA
CTTGTACTACTACGATGGCCTGGCCAACAGCAGGAGCAGATCCGGCTGACCATTGACACCACCCAAACCATCTC
TGAGGACACAGACAACGACCTTGTCCCACCCCTCGAGCTCTGCATCAGAACCAAGTCTGTGTTCCATGTCTGCGA
GAACCTTGTGTGACACCAGCTGCCTGCTGTTCCACTTCCCCCATCAATCCCCCATCATGGTGGGTCCACCTTGGC
AGTTGTTCTTAGAAAAGCTGAGTGGGCTCTATCAGGCACCTTTTTCCCCATGAAAAACACTGGGTCCATCAACGT

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FIGURE 2264B

TGAAAAGCAGTTAAGGCAGTATCAGCAATGGGCACTCACTGCCGAGGAGAAGTCTGACTTCACCAAGCCAAGCCA
GTTTGTCTCCAAATACGGCACCAGTGTCTCTTATTTGAGCAGTGAAGATGAACGCTCTGATATGGATAAAATTCCA
TCAAAGTGGCTCAACCCCAAACCAATAGACTCCTCTGGATCTGCTTGACACACAGAAGCCCAGTAAATAGTCT
GAAGCACTTGGATAGCATAGAAGCACTTAATTCTTCCACATCCAATGGATTTCAAAAAGAAGATGAGAACATGCA
GAAGTGCAGTGGCCTGCTGATGAAGAAGGGGACCCAGCAGCCTCTTCCCAAAGTGGCCTGGCTGCCTGCAGCC
TTCCCTGGTGTCTTTGATTACCTGGGTCTTGGCCTCTGGCTCCCATGTCCATCTGTCAAATCCTACCCATC
CCACAAGGCCAGCTCCAAGGCCCTCCTCTAAGAAGCCCTCCTGGATTACCCAGCCGACAGTTCAAGTCCTCCCC
TCTGAGTGCTCACAGGACTCAATCACCTCCTCTTTCACAAGCCTAG

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FIGURE 2265

GTCAC TCGTATAAAAACCTATGCTTTGAAGGTCTCTCGTGTGTCTCGGCCTGCAGGTCTCGCTCAGAGCTGTGTCC
CTGAACATCCACCCTGCTGGGGTGGCTTGACGCACTTCTGTGCAAATCTGTTTCGCTCGCAACCCTACCTACCTCT
CTCCCGAACCGGAGAAAAACCTTCGGCGGGGTCTTCCGGGTTTTGTGTGCAATCTGCGGCGGCGACCCGGCGCCG
CGTCACGCGGTGGTGAATGTGCGGCAGTACGCGCGCCGCGTCTGTTACGCGGCGATTTCATCATGCTCCGAGCCG
GCGGCGCGCGCGCTTCCGTGCCACCCCTCTCTGGACAGCCAGGGCCGCGAGGCTCATGCCCTCTCCGCGTCCAG
TGCTGCTTAGAGGTGCTCGCGCCGCTCTGCTGCTGCTGCTGCCGCCCCGGCTCTTAGCCCGACCCCTCGCTCCTCC
TCCGCGGTCCTCAGCGCGGCTCTGCGCCCCGATCTCTTGCCCGCCGCGCTCCCGGAGCAGC**ATCG**ACG
GCGCGGGGGCTGAGGAGGTGCTGGCACCTCTGAGGCTAGCAGTGCGCCAGCAGGGAGATCTTGTGCGAAAACTCA
AAGAAGATAAAGCACCCCAAGTAGACGTAGACAAAGCAGTGGCTGAGCTCAAAGCCCGCAAGAGGGTTCTGGAAG
CAAAGGAGCTGGCGTTACAGCCCAAAGATGATATTGTAGACCGAGCAAAAATGGAAGATACCCTGAAGAGGAGGT
TTTTCTATGATCAAGCTTTTGCTATTTATGGAGGTGTTAGTGGTCTGTATGACTTTGGGCCAGTTGGCTGTGCTT
TGAAGAACAATATTATTCAGACCTGGAGGCAGCACTTTATCCAAGAGGAACAGATCCTGGAGATCGATTGCACCA
TGCTCACCCCTGAGCCAGTTTTAAAGACCTCTGGCCATGTAGACAAATTTGCTGACTTCATGGTGAAGACGTAA
AAAATGGAGAATGTTTTCTGTGCTGACCATCTATTAAGGCTCATTTACAGAAATTGATGTCTGATAAGAAGTGTT
CTGTGCAAAAGAAATCAGAAATGGAAGTGTTTTGGCCAGCTTGATAACTATGGACAGCAAGAACTTGGCGATC
TTTTTGTGAATAATGTAAATCTCCCACTTACTGGAATGATCTATCCCTCCAGTGCTCTTTAACTTAATGT
TCAAGACTTTTCATGGGCCTGGAGGAAACATGCCTGGGTACTTGAGACCAGAACTGCACAGGGGATTTTCTTGA
ATTTCAAACGACTTTTGGAGTTCAACCAAGGAAAGTTGCCTTTTGCTGCTGCCAGATTGGAAATTTCTTTAGAA
ATGAGATCTCCCCTCGATCTGGACTGATCAGAGTCAGAGAATTCACAAATGGCAGAAATTGAGCACTTTGTAGATC
CCAGTGAGAAAGACCACCCCAAGTCCAGAATGTGGCAGACCTTACCTTTATTTGTATTACAGAAAAGCCAGG
TCAGCGGACAGTCCGCTCGGAAAATGCGCCTGGGAGATGCTGTTGAACAGGGTGTGATTAATAACACAGTATTAG
GCTATTTTCATGGCCGATCTACCTCTACCTCACGAAGGTGGAATATCTCCAGATAAACTCCGCTTCCGGCAGC
ACATGGAGAATGAGATGGCCCATTTATGCCTGTGACTGTTGGGATGCAGAAATCCAAAACATCCTACGGTTGGATTG
AGATTGTTGGATGTGCTGATCGTTCCTGTTATGACCTCTCTGTCTATGCACGAGCCACCAAAGTCCCACTTGTAG
CTGAGAAACCTCTGAAAGAACCCAAAACAGTCAATGTTGTTTCAGTTTGAAACCAGTAAGGGAGCAATTGGTAAGG
CATATAAGAAGGATGCAAACTGGTGATGGAGTATCTTGCCATTTGTGATGAGTGCTACATTACAGAAATGGAGA
TGCTGCTGAATGAGAAAGGGGAATTCACAAATGAACTGAAGGGAAAACATTCAGTTAACAAAAGACATGATCA
ATGTGAAGAGATTCCAGAAAACACTATATGTGGAAGAAGTTGTTCCGAATGTAATTGAACCTTCTTCCGGCTGG
GTAGGATCATGTATACGGTATTTGAACATACATTCCATGTACGAGAAGGAGATGAACAGAGAACATTCTTCAGTT
TCCCTGCTGTAGTTGCTCCATTCAAATGTTCCGCTCTCCCACTGAGCCAAAACCAGGAGTTCATGCCATTTGTCA
AGGAATTATCGGAAGCCCTGACCAGGCATGGAGTATCTCACAAAGTAGACGATTCTCTGGGTCAATCGGAAGGC
GCTATGCCAGGACTGATGAGATTGGCGTGGCTTTTGGTGTACCAATTGACTTTGACACAGTGAACAAGACCCCCC
ACACTGCAACTCTGAGGGACCGTGACTCAATGCGGCAGATAAGAGCAGAGATCTCTGAGCTGCCAGCATAGTCC
AAGACCTAGCCAATGGCAACATCACATGGGCTGATGTGGAGGCCAGGTATCCTCTGTTTGAAGGGCAAGAGACTG
GTAAAAAGAGACAATCGAGGAAT**GAGG**ACAATTTTGACAACTTTTGACCACTTGCGCTAATAAAAAAAAAAAAA
CTACTCTTATGTCCACTTTACAAAAGAAAACAGCATTGTGATTACTCCAGGGACCGTATTTTATCTTCAGTGGC
TGCCTGATTTTACCCCCACAATTAAAGTTGAAGGAATCCTGA

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FIGURE 2266

MDGAGAEVLAPLRLAVRQQGDLVRKLKEDKAPQVDVDKAVAEKARKRVLEAKELALQPKDDIVDRAKMEDTLK
RRFFYDQAFAIYGGVSGLYDFGPVGCALKNNIIQTWRQHFIQEEQILEIDCTMLTPEPVLKTSGHVDFADFMVK
DVKNGEFCFRADHLLKAHLQKLMSDKKCSVEKKSEMESVLAQLDNYGQQLADLFVNYNVKSPITGNDLSPPVSFN
LMFKTFIGPGGNMPGYLRPETAQGIFLNFKRLLEFNQGLPFAAAQIGNSFRNEISPRSGLIRVREFTMAEIEHF
VDPSEKDHPKFQNVADLHLYLSAKAQVSGQSARKMRLGDAVEQGVINNTVLGYFIGRIYLYLTKVGISPDKLRF
RQHMENEMAHYACDCWDAESKTSYGWIEIVGCADRSCYDLSCHARATKVPLVAEKPLKEPKTVNVVQFEPKSGAI
GKAYKKDAKLVMEYLAICDECYITEMEMLLNEKGEFTIETEGKTFQLTKDMINVKRFQKTLYVEEVVNPVIEPSF
GLGRIMYTVFEHTFHVREGDEQRTFFSFPVAVVAPFKCSVLPLSQNQEFMPFVKELSEALTRHGVSHKVDDSSGSI
GRRYARTDEIGVAFGVTIDFDTVNKTPHTATLRDRDSMRQIRAEISELPSIVQDLANGNITWADVEARYPLFEGQ
ETGKKETIEE

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FIGURE 2267

ATGACAGATGCCGCTGTGTCCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGAAGCCATCTCCAAGACAGCG
GTAGCGCCCATCGAGCAGGTCAAGCTGCTGCTGCAGGCTTTTAACTTCGCCTTCAAAGATAAATACAAGCAGATC
TTCCTGGGTGGGAATCTGGCATCAGGAGGTGCCGCTGGGGCCACATACTTGTGTTTTGTGTACCCTCTTGATTTT
GCCCCGTACCTGTCTAGCAGCTAATGTGGGTAAAGCTGAAGCTGAAAGGGAATTCCGAGGCCTCTGTGACTGCCTG
GTTAAGATCTACAAATCTGATGGGATTAAGGGCCTGTACCAAGGCTTTAACGTGTCTATGCAGGGTATTATCCGA
GCTGCCTACTTCGGTATCTATGACACCGCAAAGGGAATGCTTCCGGATCCCAAGGACACTCACATCGTCATCAGC
TGGATGACCACACAGACTGTCACTGCCTTTTTCIGGGTTGACTTCCTATTCAATTTGACATCTCAGGGCGCAAAGTA
ACTGACATCATGTACACAGGCACACTTGACTGCTGGAGGAAGATTGCTGGTGATGAAGGAGGCAAAGCTTTTTTC
AAGGGTTCATGGTCCAGTGTTCTCAGAGGCATGGGTGGTGCTTTTGTGCTTGCTTTGATGAAATCAAGAAG
TACAGGTAA

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FIGURE 2268

MTDAAVSFAKDFLAGGVAEAI SKTAVAPIEQVKLL LQAFNFAFKDKYKQIFLGGNLASGGAAGATYLCFVYPLDF
ARTCLAANVGKAEAEREFRGLCDCLVKIYKSDGIKGLYQGFNVSMQGIIRAAYFGIYDTAKGMLPDPKDTHIVIS
WMTTQTVTAFSGLTSYSFDISGRKVTDIMYTGTLD CWRKIAGDEGGKAFFKGSWSSVLRGMGGAFLVLFDEIKK
YR

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FIGURE 2269

TCGGCGGGACGGCTCCCGGCTGCAGTCTGCCCGCCCGCCCGCGCGGGGGCCGAGTCGCGAAGCGCGCCTGCGAC
CCGGCGTCCGGGCGCGCTGGAGAGGACGCGAGGAGCCATGAGGCGCCAGCCTGCGAAGGTGGCGGCGCTGCTGCT
CGGGCTGCTCTTGGAGTGCACAGAAGCCAAAAGCATTGCTGGTATTTGGAAGGACTCTATCCAACCTATTATAT
ATGCCGCTCCTACGAGGACTGCTGTGGCTCCAGGTGCTGTGTGCGGGCCCTCTCCATACAGAGGCTGTGGTACTT
CTGGTTCCCTTCTGATGATGGGCGTGCTTTCTGTCTGCGGAGCCGGCTTCTTCATCCGGAGGCGCATGTACCCCC
GCCGTGATCGAGGAGCCAGCCTTCAATGTGTCTACACCAGGCAGCCCCCAAATCCCGGCCAGGAGCCCAGCA
GCCGGGGCCGCCCTATTACCCGACCCAGGAGGACCGGGATGAACCCTGTGCGGAATTCCATGGCAATGGCTTT
CCAGGTCCCACCCAACCTACCCAGGGGAGTGTGGCCTGCCCGCCCCCTCCAGCCTACTGCAACACGCCTCCGCC
CCCGTACGAACAGGTAGTGAAGGCCAAGTAGTGGGGTGCCACGTGCAAGAGGAGAGACAGGAGAGGGCCTTTCC
CTGGCCTTTCTGTCTTCGTTGATGTTTCACTTCCAGGAACGGTCTCGTGGGCTGCTAAGGGCAGTTCTCTGTATAT
CCTCACAGCAAGCACAGCTCTCTTTTCAAGCTTTCCATGGAGTACAATATATGAACTCACACTTTGTCTCTCTGT
TGCTTCTGTTTCTGACGAGTCTGTGCTCTCACATGGTAGTGTGGTGACAGTCCCCGAGGGCTGACGTCTTACG
GTGGCGTGACCAGATCTACAGGAGAGAGACTGAGAGGAAGAAGGCAGTGCTGGAGGTGCAGGTGGCATGTAGAGG
GGCCAGGCCGAGCATCCAGGCAAGCATCCTTCTGCCCGGTATTAATAGGAAGCCCCATGCCGGGCGGCTCAGC
CGATGAAGCAGCAGCCGACTGAGCTGAGCCCAGCAGGTATCTGCTCCAGCCTGTCTCTCTGTCAGCCTTCTCT
TCCAGAAGCTGTTGGAGAGACATTCAGGAGAGAGCAAGCCCCCTGTCTATGTTTCTGTCTCTGTTTCATATCCTAAA
GATAGACTTCTCTGACCCGCCAGGGAAGGGTAGCACGTGCAGCTCTCACCGCAGGATGGGGCCTAGAATCAGGC
TTGCCTTGAGGCCTGACAGTGATCTGACATCCACTAAGCAAATTTATTTAAATTCATGGGAAATCACTTCTGTC
CCCAAACCTGAGACATTGCATTTTGTGAGCTCTTGGTCTGATTTGGAGAAAGGACTGTTACCCATTTTTTGGTGT
GTTTATGGAAGTGCATGTAGAGCGTCTGCCCTTTGAAATCAGACTGGGTGTGTGCTTCCCTGGACATCACTGC
CTCTCCAGGCATTCTCAGGCCCGGGGTCTCCTTCCCTCAGGCAGCTCCAGTGGTGGGTCTGAAGGGTGCTTT
CAAAACGGGGCACATCTGGCTGGGAAGTCACATGGACTCTTCCAGGGAGAGAGACCAGCTGAGGCGTCTCTCT
GAGGTTGTTGGGTCTAAGCGGGTGTGTGCTGGGCTCCAAGGAGGAGGAGCTTGCTGGGAAAAGACAGGAGAAG
TACTGACTCAACTGCACTGACCATGTTGTCTAATAATTAGAATAAAGAAGAGTGGTCGGAAATGCACATTCCTGGA
TAGGAATCACAGCTCACCCAGGATCTCACAGGTAGTCTCTGAGTAGTTGACGGCTAGCGGGGAGCTAGTTCCG
CCGCATAGTTATAGTGTTGATGTGTGAACGCTGACCTGTCTGTGTGCTAAGAGCTATGCAGCTTAGCTGAGGCG
CCTAGATTACTAGATGTGCTGTATCACGGGGAATGAGGTGGGGTGCTTATTTTTTAATGAACATAATCAGAGCCT
CTTGAGAAATTGTTACTCATTGAACTGGAGCATCAAGACATCTCATGGAAGTGGATACGGAGTGATTTGGTGTCC
ATGCTTTTCACTCTGAGGACATTTAATCGGAGAACCCTCTGGGGAATTTGTGGGAGACACTTGGGAACAAAACA
GACACCCTGGGAATGCAGTTGCAAGCACAGATGCTGCCACAGTGTCTCTGACCACCCTGGTGTGACTGCTGACT
GCCAGCGTGGTACCTCCCATGCTGCAGGCCTCCATCTAAATGAGACAACAAAGCACAAATGTTCACTGTTTACAAC
CAAGACAACCTGCGTGGGTCCAAACACTCCTCTTCTCCAGGTCAATTTGTTTGCATTTTAAATGTCTTTATTTT
TGTAATGAAAAAGCACACTAAGCTGCCCCTGGAATCGGGTGCAGCTGAATAGGCACCCAAAAGTCCGTGACTAAA
TTTTCGTTTGTCTTTTTGATAGCAAATTATGTTAAGAGACAGTGATGGCTAGGGCTCAACAATTTTGTATTCCCAT
GTTTGTGTGAGACAGAGTTTGTCTTCCCTTGAACCTGGTTAGAATTGTGCTACTGTGAACGCTGATCCTGCATAT
GGAAGTCCCCTTCGGTGACATTTCTGGCCATTCTGTCTTCCATTGTGTGGATGGTGGGTGTGCCCACTTCCCT
GGAGTGAGACAGCTCCTGGTGTGTAGAATTCGCGGAGCGTCCGTGGTTCAGAGTAACTGAAGCAGATCTGTGC
ATGCTTTTCTCTGCAACAATTGGCTCGTTTCTCTTTTTTGTCTCTTTTGATAGGATCCTGTTTCTATGTGTG
CAAAATAAAAATAAAATTTGGGCA

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FIGURE 2270

MRRQPAKVAALLLGLLLECTEAKKHCWYFEGLYPTYIICRSYEDCCGSRCVRLSIQRLWYFWFLLMMGVLFCC
GAGFFIRRRMYPPFLIEEPAFNVSYTRQPPNPGPGAQQPGPPYYTDFGGPGMNPVGNSMAMAFQVPPNSPQGSVA
CPFFPAYCNTPPPPYEQVVKAK

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FIGURE 2271

GCCGCTCCTGGTGCTGCTTGTGTGCTCGTTTGGTGCGGACCTGGTACCTCTTTTGTGAAGTGGCAGCTGAGGAGA
CCGGCGCTCGCCATGGCCGACGAAAAGCCCAACCAAGGAGTCAAGTCGGAGAACAACGATCATACTAATTTGAAG
GTGGCGGGGCAGGATGGTTCGTGGTGTCAGTTTAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAGCC
TATTGTAAGCAACAGGGATTGTCAATGAGGCAGATCAGATTCCGATTTCGACGGGCAACCAATCAAGGAAACAGAC
ACACCTGCACAGTTGGAAATGGAGAATGAAGATAACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTTGA

AAAGGGAACCTGCTTCTTTACTCCAGAACTCTGTTTCCTTAAAGACCAAGATTACATTCTCAATTAGTCTTTTCATT
TCCCCCTTCCCCATTCTTTATTGTACATAACTGGTATATGTGCACAAGCATATTGCATTTTTTTTT

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FIGURE 2272

MADEKPNQGVKSENNDHTNLKVAGQDGSVVQFKIKRHTPLSKLMKAYCKQQGLSMRQIRFRFDGQPIKETDTPAQ
LEMENEDTIDVFQQQTGGVY

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FIGURE 2273

GGAGGAAAATTCTTCCAGCGATGGTCTCCCACTCAGAGCTGAGGAAGCTTTTCTACTCAGCAGATGCTGTGTGTT
TTGATGTTGACAGCACGGTCATCAGAGAAGAAGGAATCGATGAGCTAGCCAAAATCTGTGGCGTTGAGGACGCGG
TGTCAGAAATGACACGGCGAGCCATGGGCGGGGCAGTGCCTTTCAAAGCTGCTCTCACAGAGCGCTTAGCCCTCA
TCCAGCCCTCCAGGGAGCAGGTGCAGAGACTCATAGCAGAGCAACCCCCACACCTGACCCCCGGCATAAGGGAGC
TGGTAAGTCGCCTACAGGAGCGAAATGTTTCAGGTTTTCTTAATATCTGGTGGCTTTAGGAGTATTGTAGAGCATG
TTGCTTCAAAGCTCAATATCCAGCAACCAATGTATTTGCCAATAGGCTGAAATTCTACTTTAACGGTGAATATG
CAGGTTTTGATGAGACGCAGCCAACAGCTGAATCTGGTGGAAAAGGAAAAGTGATTAAACTTTTAAAGGAAAAAT
TTCATTTTAAGAAAATAATCATGATTGGAGATGGTGCCACAGATATGGAAGCCTGTCCTCCTGCTGATGCTTTCA
TTGGATTTGGAGGAAATGTGATCAGGCAACAAGTCAAGGATAACGCCAAATGGTATATCACTGATTTTGTAGAGC
TGCTGGGAGAACTGGAAGAATAACATCCATTGTCGTACAGCTCCAAACAACCTTCAGATGAATTTTACAAGTTAT
ACAGATTGATACTGTTTGCTTACAGTTGCCTATTACAACCTTGCTATAGAAAGTTGGTACAAATGATCTGTACTTT
AAACTACAGTTAGGAATCCTAGAAGATTGCTTTTTTTTTTTTTTTAACTGTAGTTCCAGTATTATATGATGACTA
TTGATTTCTGGAGAGGTTTTTTTTTTTTTTTGGAGACAGAATCTTGCTCTGTTGCCAGGCTGGAGTGCAGTGGCG
CGGTCTCGGCTCACTGCAAGCTCTGCCTCCCAGGTTACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGA
CTACAGGCACCCGCCACCACATCCGGCTAATTTTTTTGTATTTTGTAGTAGAGACGGGGTTTGACCGTGTAGCCAG
GATGGTCTTGATCTCCTGACCTTGTGATCCGCCTGCCTCAGCCTCCCAAAGTCTGGGATTACAGGCTTGGGCCA
CCGCGCCAGCCAATGTCTAGAGAGTTTTGTGATCTGAATCTTTATGTATATTTGTAGCTATATTTCATACAA
AGTGCTTTAAGTGTGGAGAGTCAATTAACACCTTTACTCTTAGAAATACGGATTTCGGCAGCCTTCAGTGAATAT
TGGTTCTCTTTGGTATGTCAATAAAAGTTTATCCGTATGTCAGAACGGATTGTGG

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FIGURE 2274

CGAGAAGACCCGGATAGTTCTCTCCCGGCCACGCCGCGCCGGCTCTGGGCACTCAGCATCGTTTCCTTTTCTCTCCG
CTGGAGCAGCTATGGCGGCGGTGAAGACCCTGAACCCCAAGGCCGAGGTGGCCGAGCGCAGGCGGCGCTGGCGG
TCAACATCAGCGCAGCGCGGGGTCTGCAGGACGTGCTAAGGACCAACCTGGGGCCCAAGGGCACCATGAAGATGC
TCGTTTCTGGCGCTGGAGACATCAAACCTTACTAAAGACGGCAATGTGCTGCTTCACGAAATGCAAATTC AACACC
CAACAGCTTCCTTAATAGCAAAGGTAGCAACAGCCCAGGATGATATAACTGGTGATGGTACGACTTCTAATGTCC
TAATCATTGGAGAGCTGCTGAAACAGGCGGATCTCTACATTTCTGAAGGCCTTCATCCTAGAATAATCACTGAAG
GATTTGAAGCTGCAAAGGAAAAGGCCCTTCAGTTTTTGGAGAAGTCAAAGTAAGCAGAGAGATGGACAGGGAAA
CACTTATAGATGTGGCCAGAACATCTCTTCGTACTAAAGTTCATGCTGAACCTGCAGATGTCTTAACAGAGGCTG
TAGTGGACTCCATTTTGGCCATTAAAAAGCAAGATGAACCTATTGATCTCTTCATGATTGAGATCATGGAGATGA
AACATAAATCTGAAACTGATACAAGCTTAATCAGAGGGCTTGTTTTGGACCACGGAGCACGGCATCCTGATATGA
AGAAAAGGGTGGAGGATGCATACATCCTCACTTGTAACGTGTCAATAGAGTATGAGAAAACAGAAGTGAATTCTG
GCTTTTTTTACAAGAGTGCAGAGAGAGAGAAAACTCGTGAAAGCTGAAAGAAAATTCATTGAAGATAGGGTTA
AAAAAATAATAGAAGTGAAGGAAAGTCTGTGGCGATTAGATAAAGGATTTGTTGTTATTAATCAAAAGGGAA
TTGACCCCTTTTCCTTAGATGCTCTTTCAAAGAAGGCATAGTCGCTCTGCGCAGAGCTAAAAGGAGAAATATGG
AGAGGCTGACTCTTGCTTGTTGTTGGGTAGCCCTGAATTCCTTTGACGACCTAAGTCCTGACTGCTTGGGACATG
CAGGACTTGTATATGAGTATACATTGGGAGAAGAGAAGTTTACCTTTATTGAGAAATGTAACAACCCCTCGTTCTG
TCACATTATTGATCAAAGGACCAATAAGCACACACTCACTCAGATCAAAGATGCAGTGAGGGACGGCTTGAGGG
CTGTCAAAAATGCTATTGATGATGGCTGTGTGGTTCCAGGTGCTGGTGCCGTGGAAGTGGCAATGGCAGAAGCCC
TGATTAAACATAAGCCCAGTGTAAGGGGCAGGGCACAGCTTGGAGTCCAAGCATTGCTGATGCATTGCTCATTA
TTCCCAAGGTTCTTGCTCAGAACTCTGGTTTTGACCTTCAGGAAACATTAGTTAAAATTCAAGCAGAACATTAG
AATCAGGTCAGCTTGTTGGGTGTGGACCTGAACACAGGTGAGCCAATGGTGGCAGCAGAAGTAGGCGTATGGGATA
ACTATTGTGTAAAGAAACAGCTTCTTCACTCCTGCACTGTGATTGCCACCAACATTCTCTGGTTGATGAGATCA
TGCGAGCTGGAATGTCTTCTCTGAAAGGTTGAATTGAAGCTTCCTCTGTATCTGAATCTTGAAGACTGCAAAGTG
ATCCTGAGGATTACAGCTGTGGAATTTTTGTCCAAGCTTCAAATAATTTGAAAGAAATTTCCCATATGAAAA
AGGAGAGAACACTGGCATCTGTTGAAATTTGGAAGTTCTGAAATTATAGTATTTTAAAAATTGCACTGAAGTGT
ATACACATAAAGCAGGTCTTTTATCCAGTGAACAGGATGTTTGCTTTAGCAGCAGTGACATAAAATTCCATGTT
AGATAAGCATATGTTACTTACCTTGTTATTAATAATTTCTTGAAAAGCAGGCCACGAAGG

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FIGURE 2275

MAAVKTLNPKAEVARAQAALAVNISAARGLQDVLRTNLGPKGTMKMLVSGAGDIKLT KDGNVLLHEMQIQHPTAS
LIAKVATAQDDITGDGTTSNVLIIGELLKQADLYISEGLHPRIITEGFEEAAKEKALQFLEEVKVSREMDRETLID
VARTSLRTKVHAEADVLTEAVVDSILAIAKKQDEPIDLFMIEIMEMKHKSETDTS LIRGLVLDHGARHPDMKKRV
EDAYILTCNVSLEYEKTEVNSGFFYKSAEEREKLVKAERKFIEDRVKKI IELKRKVCGDSKGFVVINQKGIDPF
SLDALSKEGIVALRRARRNMERLTLACGGVALNSFDDLSPDCLGHAGLVY EYTLGEEKFTFIEKCNNPRSVTLL
IKGPNKHTLTQIKDAVRDGLRAVKNAIDGCVVPGAGAVEVAMAEALIKHKPSVKGRAQLGVQAFADALLIIPKV
LAQNSGFDLQETLVKIQAEHSESGQLVGVDLNTGEPMVAAEVGVWDNYCVKKQLLH SCTVIATNILLVDEIMRAG
MSSLKG

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FIGURE 2276

CAGACACACTGTGACGGCTGCCTGAAGCTAGTGAGTCGCGGCGCCGCGCACTGGTGGTTGGGTCAGTGCCGCGCG
CCGATCGGTCGTTACCGCGAGGCGCTGGTGGCCTTCAGGCTGGACGGCGCGGGTCAGCCCTGGTTCGCCGGCTTC
TGGGTCTTTGAACAGCCGCGATGTCGATCTTCACCCCCACCAACCAGATCCGCCTAACCAATGTGGCCGTGGTAC
GGATGAAGCGTGCCGGGAAGCGCTTCGAAATCGCCTGCTACAAAAACAAGGTCGFCGGCTGGCGGAGCGGCGTG
AAAAAGACCTCGATGAAGTTCTGCAGACCCACTCAGTGTTTGTAAATGTTTCTAAAGGTCAGGTTGCCAAAAAGG
AAGATCTCATCAGTGCGTTTGGAAACAGATGACCAAACTGAAATCTGTAAGCAGATTTTGAATAAAGGAGAAGTTC
AAGTATCAGATAAAGAAAGACACACAACTGGAGCAGATGTTTAGGGACATTGCAACTATTGTGGCAGACAAAT
GTGTGAATCCTGAAACAAAGAGACCATAACCGTGATCCTTATTGAGAGAGCCATGAAGGACATCCACTATTCCG
TGAAACCAACAAGAGTACAAAACAGCAGGCTTTGGAAGTGATAAAGCAGTTAAAAGAGAAAATGAAGATAGAAC
GTGCTCACATGAGGCTTCGGTTCATCCTTCCAGTCAATGAAGGCAAGAAGCTGAAAGAAAAGCTCAAGCCACTGA
TCAAGGTCATAGAAAGTGAAGATTATGGCCAACAGTTAGAAATCGTATGTCTGATTGACCCGGGCTGCTTCCGAG
AAATTGATGAGCTAATAAAAAAGGAACTAAAGGCAAAGGTTCTTTGGAAGTACTCAATCTGAAAGATGTAGAAG
AAGGAGATGAGAAATTTGAATTGACACCCATCAATCTCTTCACCTCTAAAAACAC

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FIGURE 2277

MSIFTPTNQIRLTNAVVRMKRAGKRFEIACYKNKVVGWRSGVEKDLDEVLTQTHSVFVNVSKGQVAKKEDLISAF
GTDDQTEICKQILTKGEVQVSDKERHTQLEQMFRDIATIVADKCVNPETKREYTVILIERAMKDIHYSVKTNKST
KQQALEVIKQLKEKMKIERAHMRLRFILPVNEGKKLKEKLKPLIKVIESEDYGQQLIVCLIDPGCFREIDELIK
KETKGKGSLEVLNLKDVEEGDEKFE

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FIGURE 2278

GACACTATCCGTGCGGCCAGGCGGAGACCCGGAGGACCGAAGCTTCCGGACGACGAGGAACCGCCCAACATGGCC
TCGGAGAGTGGGAAGCTTTGGGGTGGCCGGTTTGTGGGTGCAGTGGACCCCATCATGGAGAAGTTCAACGCGTCC
ATTGCCTACGACCGGCACCTTTGGGAGGTGGATGTTCAAGGCAGCAAAGCCTACAGCAGGGGCCCTGGAGAAGGCA
GGGCTCCTCACCAAGGCCGAGATGGACCAGATACTCCATGGCCTAGACAAGGTGGCTGAGGAGTGGGCCAGGGC
ACCTTCAAACCTGAACCTCAATGATGAGGACATCCACACAGCCAATGAGCGCCGCCTGAAGGAGCTCATTGGTGCA
ACGGCAGGGAAGCTGCACACGGGACGGAGCCGAATGACCAGGTGGTCACAGACCTCAGGCTGTGGATGCGGCAG
ACCTGCTCCACGCTCTCGGGCCTCCTCTGGGAGCTCATTAGGACCATGGTGGATCGGGCAGAGGCGGAACGTGAT
GTTCTCTTCCCGGGGTACACCCATTTGCAGAGGGGCCAGCCCATCCGCTGGAGCCACTGGATTCTGAGCCACGCC
GTGGCACTGACCCGAGACTCTGAGCGGCTGCTGGAGGTGCCGAAGCGGATCAATGTCTGCCCTGGGGAGGTGG
GGCCATTGCAGGCAATCCCTGGGTGTGGACCGAGAGCTGCTCCGAGCAGAACTCAACTTTGGGGCCATCACTCT
CAACAGCATGGATGCCACTAGTGAGCGGGACTTTGTGGCCGAGTTCCTGTTCTGGGCTTCGCTGTGCATGACCCA
TCTCAGCAGGATGGCCGAGGACCTCATCCTCTACTGCACCAAGGAATTACAGCTTCGTGCAGCTCTCAGATGCCTA
CAGCACGGGAAGCAGCCTGATGCCCCAGAAGAAAAACCCGACAGTTTGGAGCTGATCCGGAGCAAGGCTGGGCG
TGTGTTTGGGCGGTGTGCCGGGCTCCTGATGACCCTCAAGGGACTTCCCAGCACCTACAACAAAGACTTACAGGA
GGACAAGGAAGCTGTGTTTGAAGTGTGAGACACTATGAGTGCCGTGCTCCAGGTGGCCACTGGCGTCATCTCTAC
GCTGCAGATTACCAAGAGAACATGGGACAGGCTCTCAGCCCCGACATGCTGGCCACTGACCTTGCCATTACCT
GGTCCGCAAAGGGATGCCATTCCGCCAGGCCCACGAGGCCCTCCGGGAAAGCTGTGTTTCATGGCCGAGACCAAGGG
GGTCGCCCTCAACCAGCTGTCACTGCAGGAGCTGCAGACCATCAGCCCCCTGTTCTCGGGCGACGTGATCTGCGT
GTGGGACTACGGGCACAGTGTGGAGCAGTATGGTGCCCTGGGCGGCACTGCGCGCTCCAGCGTCGACTGGCAGAT
CCGCCAGGTGCGGGCGCTACTGCAGGCACAGCAGGCCTAGGTCTCTCCACACCTGCCCCCTAATAAAGTGGGCGC
GAG

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FIGURE 2279

MASESGKLWGGRFVGAVDPIMEKFNASIAYDRHLWEVDVQGSKAYSRGLEKAGLLTKAEMDQILHGLDKVAEEWA
QGTfKLNSNDEDIHTANERRLKELIGATAGKLHTGRSRNDQVVTDLRLWMRQTCSTLSGLLWELIRTMVDRAEAE
RDVLFPGYTHLQRAQPIRWSHWILRAIAGNPLGVDRELLRAELNFGAITLNSMDATSERDFVAEFLFWASLCMTH
LSRMAEDLILYCTKEFSFVQLSDAYSTGSSLMPQKKNPDSLELIRSKAGRVFGRCAGLLMTLKGLPSTYNKDLQE
DKEAVFEVSDTMSAVLQVATGVISTLQIHQENMGQALSPDMLATDLAYYLVRKGMPPRQAHEASGKAVFMAETKG
VALNQLSLQELQTISPLFSGDVICVWDYGHsVEQYGALGGTARSSVDWQIRQVRALLQAQQA

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FIGURE 2280

CTCTTTCCCATCTTGCAAGATGGCAGGTGAAAAAGTTGAGAAGCCAGATACTAAAGAGAAGAAACCCGAAGCCAA
GAAGGCTGATGCTGGTGGCAAGGTGCAAGAGGGTAATCTTAAAGTTAAAAAGCCCAAGAAGGGGAAGCCCTATTG
CAGCCACAACCCTGTCCTTGTCAGAGGAACTGGCAGGTATTCCCGATCTGCCATGTATTCTAGAAAGGCCATGTA
TAAGAGGAAGTACTCAGCCGCTAAATCAAAGATTGAAAAGAAAAAGGAGAAGGTTCTTGCAACTGTTACAAAACC
AGTTGGTGGTGACAAGAATGGTGGTACCCAGGTGGTTAAACTTCACAAAATGCCTAGATACTATCCTACCGAAGA
TGTACCTCGAAAGCTGTTGAGCCACAGCAAAAAACCCCTCAGTCAGCATGTGAGAAAACCTGCAAGCCAGCATTAC
CCCTGGGACCATTCTGATCATCCTCACTGGATGCCACAGGGGCAAGAGGGTGGTTTTCTGAAGCAGCTGGCTAG
TGGCTTGTTACTTGTGACTGGACCTCTGGTCCTCAATTGAGTTCCCTCTACGAGGAACACACCAGAAATTTGTCAT
TGCCACCTCAACCAAAATCGATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGCTTACTTCAAGAAGCA
GCAGCTGCGGAAGCCCAGACACCAGGAAGGCAACATCTTCGACACAGAAAAAGAGAAATATGAGATTACAGAGCA
GCGCAAGATTGATCAGAAAGCTGTGGACTCACAAATTTTACCAAAAGTCAAAGCTATTTCTCAGCTCCAGGGCTA
CCTGCGATCTGTGTTTGCCCTGACGAATGGAATTTATCCTCACAAATTGGTGTCTAAATGTCTTAAGAACCTAA
TTAAATAGCTAAGTAC

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FIGURE 2281A

CGCTTCCTGCGCCTCTTCAGGTCACCGCTTGCTCTAGTTCCAGGCTTTGGCCTCTAGTGGATGAGAAATCACCGA
GTCTGCGGGGCTGGACGCTGACCGCCCGGGCCAGCACCTAGGCGGGCGGGAGCTGTGCGGCCAGGGTTTCGCGCG
GGCCGGGTAGAGGCTCGAGCCGGGACCCCGAGCGTGAACCCCGGAGCCAGCGGCGCTGGGGCCAGAGGGGCCAG
GCGGGAGGTGGTGGCGGAGGCGAAGGGGCGACGGGACCTGGGCTGGCCCGTGTGTCTCGGCGGCCTGGCGC
CGGCCGTCGCTGTACGGTGAGCCCCAGGGAGGCGGATCTGGGCCCCGAGAAGGACACCCGCCTGGATTGCCCCG
TAGGCCCGCCCCGGGCCCCCTCGGGAGCAGAACAGCCTTGGTGAGGTGGACGGGAGGGGACTTCGCGAGCAGACGC
GCGCGCCAGCGACAGCAGCCCCCGGCCCTCTCGGGAGCCGTGGGGCAGAGGCTGCAGAGCCCCAGGAGGGGGC
CAGTGTCAATTCAAAGATGTGGCTGTGGATTTACCCAGGAGGAGTGGTGGCAACTGGACCCTGATGAGAAGATAA
CATACGGGGATGTGATGTTGGAGAACTACAGCCATCTAGTTTCCCTGGCTTATGAGGTGGCAACATCTTGTACTT
CGGAGATCTGAAGCCGAGCAACTTGCCCAAGTCCTTCTTCTTTCCCATTAACAAGATATGATATCACCAAGCCA
AACGTATCATTAAGTTGGAGCAGGGAGAGGAGCTGTGGATAACGGGAGGTGAATTTCCATGTCAACATAGTCCA
GCCCTTCACATCCTCAGCCGAAGATCTCACTTCCTCCAGAGGCCTTTGCTGACTGACCCCTCAGGGATTGTGGG
ACTTTACCAAAATCGGTTTGTAAATAACACCTAGAAGACGCTATCCGATCCATCAGGCCAGTATTCTGTCTGGGG
GTACTTCCACCGTGTGCTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCTCGCAACTCCAGGATGGTGTGT
AGCCAGTGACTGTGAGGATCGCCCTCCTGACAGAAGATTTTCGCGTTCTGCGATACCAGAGCAGATAATCAGC
TCAACACTGTCTCACCATCAAGTAACGCCCCAGCCCATGTGCAAAGGAGACAGTACTGAGTGCCCTCAAAGAG
AAGGAGAAGAAAAGGACAGTGGAGGAAGAAGACCAAAATATTCCTTGATGGCCAGGAAAATAAAGAAGGCGCCAT
GATAGCAGTGGCAGTGGACATTCAGCATTGAGCCCTGGTGGCCAATGGAGTCCCCGCTTCTTTTGTGCTTAAG
CCTGGGTCTCTGAAGAGAGGCCTCAATTCTCAGAGCTCAGATGACCACTTGAATAAGAGATCCCGAAGCTCTTCC
ATGAGCTCCTTGACAGGCGCTTACGCAAGTGGCATCCCTAGCTCCAGCCGCAATGCCATTACAGTTCTTACAGC
TCCACTCGAGGCATCTCACAGCTCTGGAAGAGAAATGGCCCCAGTTCATCACCTTCTCTAGCCAGCCTCCTCC
CGTCCCAGACACCGGAGAGGCCAGCAAAGAAAATAAGAGAAGAGGAGCTGTGTCACTATTCCAGTTCTTCAACT
CCATTGGCAGCAGACAGGGAGTCCCAGGGAGAAAAGGCTGCAGATACAACCCCAAGGAAGAAACAAACTCGAAT
TCTCAGTCTACACCTGGCAGCTCTGGGCAGCGTAAGCGGAAAGTTCAGCTGCTGCCTTCTCGGCGAGGGGAACAG
CTGACCTTGCCCTCCACCTCCCAGCTTGGCTATTGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCA
TTACAGTGGTTCAACCAGGCCTTGAGGAGACAAGAGCGATGCTGCCTCGAACTCTGTCACTGAGACCCACCTATC
ACTCAGCCTTCATTTACCTTTACCCTGCCTGCTGCTGCACCTGCCTCCCCACCCACCTCCCTCTGGCCCCAAGC
ACCAACCCACTGTGTAGAGAGCTTGAAGAAGATGCAGACTCCCCGAGCCTGCCACCTGCCCAGAATCTGCTGGA
GCAGCAACCACTGAGGCCCTCTCACCTCCAAGACACCCAGCCTCTACCCCGCTGGGTTTATCACAGTCAGGG
CCGCCAGGGCTGCTCCCCAGCCCTCCTTTGACTCCAAACCCCGACCCTTTGCTGGGGCTGATCCCTGCTCCA
TCCATGGTACCAGCCACTGACACCAAGGCACCTCCAACCTTCAGGCAGAGACGGCTACCAACCCCAAGCCACA
TCTGCCCCGTCCCCCGCCCCAAGCAAAGCTTCTGTTTGAACACAGAACACCTCACCTTCCAGCCCTGCCGCC
CCTGTGTCATCTTCAGCACCTCCCATGTTCAAGCCATTTTCACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCC
ACACCGCCTGGCCCTTCAGTCACAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACCACAGCACCCAGCC
CCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCTGTGCCCTTGCTGCTCCCTTCTTCAAGCAG
ACAACTACTCCCGCCACTGCTCCACCACTGCCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTG
GCTCCCATCACCTCTGCCAGTCCATCCACAGACTCTGCTTCGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTG
AGCAGCAGCAGTGTGAGTACCAGACAGCAGCCGCACTGCCGCTCAGCCTTTCTCTTCGGGGCGCCCCAG
GCCTCTGCTGCCAGCTTCACCCCGCCATGGGCTCCATATTCCAGTTTGGCAAACCTCCTGCCTTGCCACAACC
ACCACAGTCACCACTTCAGCCAGTCCCTGCACACTGCCGTGCCAACGGCCACCAGCAGCAGCTGCCGACTTT
AGTGGTTTTTGGCAGCACCTCGCCACCTCCGCCCGGCCACCAGCAGCCAGCCACTCTGACGTTTCAAGACG
AGCACCCCAAGTTCAACATTCCCTTTGGCTCAAGCGGCAAGTCCCGCTCCCATCATATCCGGGAGCCAACCC
CAGCCCGCATTTGGGGCCGCTGAGGGGCGAGCCAGGGGGCCGCAAGCCGGCCCTTGCCCCAGCTTTGGCAGC
TCTTTCACTTTTGGAACTCTGCAGCCCCGGCTGCTGCACCCACACCTGCACCTCCGTCCATGATCAAGTTCGTG
CCTGCGTACGTGCTACGCCATCCATCCTTCTTGGCGGTGCCACGCACTCGGCGTTTGGGTGAAAGCCAGC
GCTTCGGCCTTCGGCGCTCCCGCCAGCTCACAGCCCGCTTTGGCGGCTCCACTGCTGTCTTCTTCGGTGCAGCC
ACCAGCTCCGGCTTTGGAGCCACCAACCCAGACCCGAGCAGCGGGAGCAGCAGCTCGGTGTTTGGCAGCACAACA
CCATCACCTTCACGTTTGGGGGTTTCGGCAGCCCCCGCTGGCAGTGGGAGCTTTGGGATCAATGTGGCCACCCCA

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FIGURE 2281B

GGCTCCAGCACCACCACCGGAGCTTTTCAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCCTTC
GCAGGGGGCTTAGGTGAGAACGCCCTTGGGCACCACCGGCCAGAGCACACCGTTTGCCTTCAACGTGAGCAGCACA
ACTGAGAGCAAACCTGTGTTTGGAGGCACCGCCACCCCCACCTTTGGTCTGAACACCCCTGCGCCTGGAGTGGGC
ACATCAGGCAGCAGCCTCTCCTTTGGGGCATCCTCAGCACCCGCCCAAGGCTTTGTTGGTGTGACCTTTTCGGC
AACACTTTTGCTCACCAGCAAGAACACAGCCCGAGGAAGGGACCCAATAACCTTTCAAAACGCAAACCTGCTGCCT
GCGGTGAGGGCCCAGGGTCTTCCACGGAGAGGACAGGCATCTTCCTTTCCACAGGAAGGAGTGAGCCCGGAGC
CTCTGCTATGTGCAAGGCGGTGTGCAAGCACCGGCTGCAGCTTTTGTCTCTCTTTCTCTTTGGGGCTGGGCT
GGGTGTGCGTCTGCTGCTGATGCTTTGGCCTGTGAGGCTGAGCTAGAGAAATGTAGATGTTAGATGTGCCAGTA
CCATCCTGCGCCTCCCAAGCATGCCCCACTCACTCAGCTCGGCATCTCGACCCGTTCAATTACAGCAACGAAGA
AGCCACCGCTAAGCGTGGTCTTGGGGGAAGCCCGAGGCAGTGCTCGGCACCCGGGAACGTGCTCAGGCCTCGGT
GGGGCCGGGCAGGCAGGGCGGGAGCTAGCCTGCAAGAGAAACAGCCCCAATGCTGGGTAAGAGAGCAGTTACCC
CATCCCCCTCCACGACCCTGGCGCACGCCCTGTACCTGAAGGCGCCCGGGTCTGCTGCAGCGCATCTTGTA
CATGTCTTCATCTCTCCTCTGGCAGAGGGAGCACATGGAGTAGACGAGCCGCTGCAGGGAAGGGAAAGTGAGCGC
GTGGCACAGGGCTCGCTGCTGGAACCCCTGCCAGGSCATGCAGACGCACCGGGCTAGGTGTCCCTGCCCCGGGCTC
CTCCAGCTGTCTGCTCGGCATACCTAAGGAAAAGCGTGTCTCGGTTACACAGCTTCACAGGCTGCCTCAGTCTCTG
AAATCCTCGCTCCTGAAATCCTCGCTTCACAGAGGAGAACTTTTGCTCCAGGGTCCCAAGCCATTAAAGTGTA
GAACTAAGACCAAAACAGATGACTCCAGGTCTAAGCTGTGTGGACCTCTGAGTCCCTCAGCCACGCCTTCTCAC
CATCTCACCCGAGCCACTGCAGGAAGGATCCAGCAGGACATAGTGGACCTCACGATAGCGCGGATCTAAGGGGA
GACCGCCAGGAAGTCTCCTCAGCCAGCTCACAGCAGGAGACGCCAGCCAGCCAGCCAGCAGCGTGGCCATGGATGC
CAGCCGCTTGGCATCCAGGTCAAAGGCAAAGATCTTCTAGGGCAGAGGGCAGAGCAGGGGTGAGCTGAGCATGC
ATGGAGCAGCTAAGGECCTGTACAGCTGACACAGACAACCAGAACATGCAGGTTAAGCCAGGACACACAATATT
GAAACAGCCTATATTTAAAGGGCCAGGGTCAGAGGTAAGTGGCCTGGGGTCTCTGCCCCAAGGGCTAAGGGATC
CACATCTCACACCTGCAGTGGGGAAGCTTAGCTTGGGGCAAATACCGTGAACACTTTTGGTGCAGCAGGAAAGA
GTTAAGCGAAAGTCATCCTTTTCAGCCTTCATTACCCACTGAAAGGCACAAAATCAAACCCCATCTCTCTCTCTC
CTCCTGTGGCACTCACCCCTTGGTTCTTCAGAAGAGCAGCCAAGTGACTGGTCTTTATTGCTGGGGTGGCACAGG
CATCCATGACATGGGAGCCTGGCGGGGGTCCAGCAGCATGGCTGGGAGACAGCTGGCCTGGCAGGCAGAACACAG
GGGCCGGGTAAACAGAGACCCAGGCTAGGCCCTTCCCGTGCTACACATTCTTCCCTTTTCTATTCTCTCTGCC
TACCCTGTCTGCAAGATGAGGTGTCCGGCCCGGTACAGTGGGTGTTTCATGCAGATCTGTCTGGCGGGAAACAC
CAGCAGCTCCGGCATCAAGGGGTCCAGGAGAAAATGCTTCCCTTGAGGGCTCGTAAGTCATCGAGGCTGCCAGG
GAAGAACCATTTCATTCATTTCTGAATTTCTCCCTGCCAGGCCCTATTCAACGGTCCATTCATGCAACAAA
TGTTACCACAGCTATGGAGAAATCAACAGGGTGATAAGGGAATCCGGGATCCGCAGTTGAGGGAATGGGTTGTCA
AGCCAGACTTATGGGTGAGGAGCCCCCTCTACTGTTTACCAGCAGTGGGAGCCTGGGCAAGTGATTCAATCTCAA
GCCCCACTGGCATCTCTGTAAATAGTAGGTGTGAGGATTCAATGAGCCAATATATCCAAGATACTTACGTGCCA
CAATTTAATAAATGTTAGCTATTCTGTGTAAGCATAACCTTGGAGAAAGGTTACTTTACAGGGGGGTGAGGAGT
GGGGAAGTGAGAGCTGAGCTATTCTTGATGGATGAGGAGTTAGTCATGTGAGGCGCTTAGGTTAAAACTACATT
CACTATAACTCAGTAAAGCAGTCCCGCCCACTCTCCGACCATGCAGAAAAGGCCCTAGGGAGTCACATGTCTCA
GTTTCAAGAAATCTATCGAAGTGGCAGAGCTGGAATTCAAACACAAGCAGCCGTCTCTGCTATTCCACCCTGGTGT
CCAAGCAACATGGTAGGGCAGAAAGGAGGATCTTACAAAGAGTAAGGGAAAGGGAGAGGGGCAGAGACCAGCCACTG
CTCAGAGCCACCAAGGACAAAATAAGACAGGTGTGAGCCAGTGGAGGAGGCACGGGGCAGAGACCAGCCACTG
TTGCTGGCAGCTGGTGACGTAGCACTGTGGCAGATGGACCTGGAGAGGAAGCAGGAGGGACAGCACAATGGAG
CCAAGAAAGGACTTAGCATGGCCGGGCGGGTGGTTTCATGCCTGTAATCCAGCATTTTGGGAGGCCAAGGTGGG
CAGATCACCTGAGGTCAGGAGTTTGGAGACAGCCTGGCCAACATGGAGAAAATCCCGTCTCTACTAAAAATACAAA
ATTAGCCAGGCATGGTGCTGCATGCCTGCAATCCTGTAGGGAAAAGAAAGAGAGATCAGACTGTTACTGTGTCTG
TGTAGAAAGGGAAGACATAAGAAATTCATTTGACCTGTACCTTGAACAATGGTTGGCTGAGATGCTGTTAAT
TTGTGACTTTGCCCCAAATTTGAGCTCACAAAACATGTGTTGTATGGAATCAAGGTTTAAAGGATCTAGGGCTG
TGCAGGACATGCCTTGTTAATAAACGTTTACAAGC

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FIGURE 2282

GCCAGGGAGCACTGGAGGCCACCCAGTCATGGGGGACACCTTCATCCGTCACATCGCCCTGCTGGGCTTTGAGAA
GCGCTTCGTACCCAGCCAGCACTATGTACATGTTTCCTGGTGAAATGGCAGGACCTGTGCGAGAAGGTGGTCTACC
GGCGCTTCACCGAGATCTACGAGTTCCATAAAACCTTAAAGAAATGTTCCCTATTGAGGCAGGGGCGATCAATC
CAGAGAACAGGATCATCCCCACCTCCCAGCTCCCAAGTGGTTTGACGGGCAGCGGGCCGCGAGAACCACCAGG
GCACACTTACCGAGTACTGCGGCACGCTCATGAGCCTGCCCACCAAGATCTCCCGCTGTCCCCACCTCCTTGA
TCTTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACGGACAACCAGACAAAAAGCCAGAGACATACTTGATGC
CCAAAGATGGCAAGAGTACCGCGACAGACATCACCGGCCCCATCATCCTGCAGACGTACCGCGCCATTGCCAACT
ACGAGAAGACCTCGGGCTCCGAGATGGCTCTGTCCACGGGGGACGTGGTGGAGGTCGTGGAGAAGAGCGAGAGCG
GTTGGTGGTTCTGTCAGATGAAAGCAAAGCGAGGCTGGATCCCAGCATCCTTCCTCGAGCCCCCTGGACAGTCCTG
ACGAGACGGAAGACCCTGAGCCCAACTATGCAGGTGAGCCATACGTCGCCATCAAGGCCTACACTGCTGTGGAGG
GGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGTTGAGGTAATTACAAGCTCCTGGACGGCTGGTGGGTCATCA
GGAAAGACGACGTACAGGCTACTTCCCGTCCATGTACCTGCAAAAGTCAGGGCAAGACGTGTCCAGGCCCAAC
GCCAGATCAAGCGGGGGCGCGCCCCGAGGTCGTCCATCCGCAACGTGCACAGCATCCACCAGCGGTGCGCGGA
AGCGCCTCAGCCAGGACGCCTATCGCCGCAACAGCGTCCGTTTTCTGCAGCAGCGACGCCGCCAGGCGCGGCCGG
GACCGCAGAGCCCCGGGAGCCCGCTCGAGGAGGAGCGGCAGACGCGCGCTCTAAACCGCAGCCGGCGGTGCCCC
CGCGGCCGAGCGCCGACCTCATCCTGAACCGCTGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTGCCGTCTGAG
GCTGGAGCGCAGTCCCCAGCTAGCGTCTCGGCCCTTGCCGCCCGTGCTGTATATACGTGTTCTATAGACCTG
GCGTCTGGACGCCGAGGGCAGCCCCGACCCCTGTCCAGCGCGGCTCCCGCCACCCTCAATAAATGTTGCTTGGAG
TGGACCGAGGCTCTGCAGGAATGCAGGGAGGGCCGGGCTCCGCCCCAGGGTTATTTCTAAGTTGA

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FIGURE 2283

MYMFLVKWQDLSEKVVYRRFTEIYEFHKTLEMFPIEAGAINPENRIIPHLPAKWFQRAAENHQGTLETCG
TLMSLPTKISRCPHLLDFFKVRPDDLKLPDNTQTKKPETYLMFKDGKSTATDITGP IILQTYRAIANYEKTSGSE
MALSTGDVVEVVEKSESGWWFCQMKAKRGWIPASFLEPLDSPDETEDPEPNYAGEPYVAIKAYTAVEGDEVSLLE
GEAVEVIHKLLDGWWVIRKDDVTGYFPSMYLQKSGQDVSQAQRQIKRGAPRRSSIRNVHSIHQSRKRLSQDAY
RRNSVRFLQQRRRQARPGFQSPGSPLEERQTQRSKPQPAVPPRPSADLILNRCSESTKRKLASAV

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FIGURE 2284

CCCCGCGCTGCGCGGAGCAGGGACCAGGCGGTTGCGGCGGCGACAGCCATGGCGGCGCGCTGGCAGGTCTGGCC
GCGGGCTTGCAGGTCCCGCGGGTTCGCGCCAGCCAGACTCGGACTCGGACACAGACTCGGAGGACCCGAGTCTC
CGGCGCAGCGCGGGCGGCTTGCTCCGCTCGCAGGTTCATCCACGCGGTCACTTCATGGTGTGCTGCGCCGACAGC
GACTCGCTGCCCCGCGCGCGCACCAGGAGGGGTCCGTGGGGCCCTCCGACTTCGGGCGCGCAGTATCGACCCCC
ACACTCACACGCCTCTTCGAGTGCTTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCCAAGTGAAGAATTTC
AAAGGCCTCAAGCTGCTCTGCAGAGACAAGATCCGCCTGAACAACGCCATCTGGAGGGCCTGGTATATCCAGTAT
GTGAAGCGGAGGAAGAGCCCCGTGTGTGGCTTCGTGACCCCTTCGAGGGGCTGAGGCTGATGCGCACCAGGAAG
CCGGAGGCGGTGGTCTTGAGGGGAACCTACTGAAGCGGCGCATCGAGGTGGTGTGCGGGAATACCACAAGTGG
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCAGCAGGGAAGATGACCTCCTGGCCCCCTAAGCAGGCGGAAGGC
AGGTGGCGCGCGCGGAGCAATGGTGCAAACAGCTCTTCTCCAGTGTGGTCCCCGTGCTGCTGGGGGACCCAGAG
GAGGAGCCGGGTGGGCGCGCAGCTCCTGGACCTCAATTGCTTTTGTCCGACATCTCAGACACTCTTTCACCATG
ACTCAGTCCGGCCCTTCGCCCCCTGCAGCTGCGCCTGAGGATGCCTACGTGCGCAATGCTGACATGATCCAGCCG
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACCAACTCCCGCCTCCCA
CAGCCGCCCATGCTTCAAACCTTCCAGAGCCCCCAGCTTCAGCCCCGTGGTTGACTCCCTCTTCAGCAGTGGG
ACCCTGGGCCCAGAGGTGCCCCCGGCTTCCTCGGCCATGACCCACCTCTCTGGACACAGCCGTCTGCAGGCTCGG
AACAGCTGCCCTGGCCCCCTTGGACTCCAGCGCCTTCCTGAGTTCTGATTTCCTCCTTCTGAAGACCCCCAAGCCC
CGGCTCCACCCCCCTCTGTACCCCCACCTCTGCTGATTACCCCTCCCCCTGCCAAGGTGCCAGGCTGGAGCCC
TGCCCCCACCTCCCTTCCCTCCCATGGCACCCACCTGCTTTGCTGCAGGAAGAGCCTCTCTTCTCTCCAGG
TTTCCCTTCCCCACCGTCCCTCCTGCCCCAGGAGTGTCTCCGCTGCCTGCTCCTGCAGCCTTCCACCCACCCCA
CAGTCTGTCCCCAGCCAGCCCCACCCCTTCCCCATAGAGCTTCTACCCCTTGGGGTATTCCGAGCCTGCCTTT
GGGCTTGCTTCTCCATGCCCAGAGGAAGCCCCCGCCCATCCCTAGGGGACAGAAAGCCAGCCCCCTACC
TTAGCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAACAACCCCTGCCTCACACAGCTGCTCACAGCA
GCTAAGCCGGAGCAAGCCCTGGAGCCACCCTTGTATCCAGCACCCCTCCTCCGGTCCCCAGGGTCCCCGAGGAG
ACAGTCCCTGAATTCCTTGCACATTCTTCCCCCGACCCCGGCCCTTACACCGCCCCGGCCACCTCCAGGCCCCG
GCCACATTGGCCCCCTTCCAGGCCCCCTGCTTGTCCCCAAAGCGGAGCGGCTCTCACCCCCAGCGCCAGCGGCAGT
GAACGGCGGCTGTGAGGGGACCTCAGCTCCATGCCAGGCCCTGGGACTCTGAGCGTCCGTGTCTCTCCCCGCAA
CCCATCCTCAGCCGGGGCCGTCCAGACAGCAACAAGACCGAGAACCGGCGTATCACACACATCTCCGCGGAGCAG
AAGCGGCGCTTCAACATCAAGCTGGGGTTTGACACCCTTCATGGGCTCGTGAGCACACTCAGTGGCCAGCCAGC
CTCAAGGTGAGCAAAGCTACCACGCTGCAGAAGACAGCTGAGTACATCCTTATGCTACAGCAGGAGCGTGCGGGC
TTGCAGGAGGAGGCCAGCAGCTGCGGGATGAGATTGAGGAGCTCAATGCCGCCATTAACCTGTGCCAGCAGCAG
CTGCCCCCACAGGGGTACCCATCACACACCAGCGTTTTTGACCAGATGCGAGACATGTTTGATGACTACGTCCGA
ACCCGTACGCTGCACAACCTGGAAGTTCTGGGTGTTACAGCATCTCATCCGGCCTCTGTTTGAGTCCTTCAACGGG
ATGGTGTCCACGGCAAGTGTGCACACCCTCCGCCAGACCTCACTGGCCTGGCTGGACCAGTACTGCTCTCTGCCC
GCTCTCCGGCCAACCTGTCTGAACCTCCTACGCCAGCTGGGCACATCTACCAGTATCCTGACCGACCCGGGCGCG
ATCCCTGAGCAAGCCACACGGGCAGTCACAGAGGGCACCCCTTGGCAAACCTTTATAGTCCTGGCCAGACCCTGCT
GCTCACTCAGCTGCCCTGGGGGCTGCTTTCCCTGGGCACGGGCTCCAGGGATCATCTCTGGGCACTCCCTTCTG
CCCCAGGCCCTGGCTCTGCCCTTCCCTGGGGGGTGGAGCAGGGTCCAGGTTTACACTTGCCACCTCCTGGAGGT
CAAGAAGAGCAGAGTCCCCGTCCCTGCTCTGCCACTGTGCTCCAGCACCGTGACCTTGGGTGACTCGTCCGTGT
CTTTGGACCGCTGTGTTCAATCTGCAAAATGGGGATGGGGAAGGTTCAATCAGCAGATGACCCCCAGGCCTTGG
CAGTGTGACATTGGGGGCTAGGCTGGCAACTCCGGGGGCTCAACGGTGGAAAGAGGAGGATGCTGTTTATCTG
TCACCTCCACTTGCTCCCCGACAGGTGGGGCACAGACCTCTGTTCTTGAGCAGAGAAGCAGAAAGGAGGTTCCC
TCTCTGCTCCTTCACTGCTGACCCAGAGGGGCTGCAGGATGGTTTTCCCTGGGAGAGGCCAGGAGGGCCTGAT
CCCAGGAGACACCAGGGCCAGAGTGACCACAGCAGGGCAGGCATCATGTGTGTGTGTGTGTGGATGTGTGTGT
GTGGGTTTTGTAAAGAATTCTTGACCAATAAAAGCAAAACTGTCTGCTGGTTAAAAAAAAAAAAAAAA

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FIGURE 2285

MAGALAGLAAGLQVPRVAPSPDSDDSDTSEDPSLRRSAGGLLRSQVIHSGHFMVSSPHSDSLPRRRDQEGSVGPS
DFGPRSIDPTLTRLFECLSLAYSGKLVSPKWKNFKGLKLLCRDKIRLNNAIWRWYIQQYVKRRKSPVCGFVTPLQ
GPEADAHRKPEAVVLEGNVWKRRIEVVMREYHKWRIYYKKRLRKPSREDDLLAPKQAEGRWPPPEQWCKQLFSSV
VPVLLGDPEEEPGGRQLLDLNCFLSDISDTLFTMTQSGPSPLQLPPEDAYVGNADMIQPDLTPLQPSLDDFMDIS
DFFTNSRLPQPPMPSNFPPEPPSFSPVVDLSLFSSGTLGPEVPPASSAMTHLSGHSRLQARNSCPGPLDSSAFLSSD
FLLPEDPKPRLPPPPVPPPLLHYPPPAKVPGLEPCPPPPFPPMAPPTALLQEEPLFSRPFPPFTVPPAPGVSPPLP
APAAFPPTPQSVSPAPTFFPIELLPLGYSEPAFGPCFSMPRGKPPAPSPRGQKASPPTLAPATASPPTTAGSNN
PCLTQLLTAAPPEQALEPPLVSSTLLRSPGSPQETVPEFPCTFLPPTPAPTPPRPPPGPATLAPSRPLLVPKAER
LSPPAPSGSERRLSGDLSSMPGPGTLSVRVSPPQPILSRGRPDSNKTENRRITHISAEQKRRFNKLGFDLHGL
VSTLSAQPSLVSKATTLOKTAEYILMLQOERAGLQEEAQQLRDEIEELNAAINLCQQQLPATGVPITHQRFDQM
RDMFDDYVRTRLHNWKFVFSILIRPLFESFNGMVSTASVHTLRQTSALWLDQYCSLPALRPTVLNSLRQLGTS
TSILTDPGRIPEQATRAVTEGTLGKPL

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FIGURE 2286

CCCCGCGCTGCGCGGAGCAGGGACCAGGCGGTTGCGGGCGGCGACAGCCATGGCCGCGCGCTGGCAGGTCTGGCC
GCGGGCTTGCAAGTCCCGCGGGTTCGCGCCAGCCAGACTCGGACTCGGACACAGACTCGGAGGACCCGAGTCTC
CGGGCGCAGCGCGGGCGGGCTTGCTCCGCTCGCAGGTCAACACAGCGGTCACTTCATGGTGTCTGTCGCCGACAGC
GACTCGCTGCCCCGGCGGCGGACAGGAGGGGTCCGTGGGGCCCTCCGACTTCGGGCCGCGCAGTATCGACCCC
ACACTCACACGCCTCTTCGAGTGCTTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCCAAGTGGAGAATTTT
AAAGGCCTCAAGCTGCTCTGCAGAGACAAGATCCGCTGAACAACGCCATCTGGAGGGCCTGGTATATCCAGTAT
GTGAAGCGGAGGAAGAGCCCCGTGTGTGGCTTCGTGACCCCCCTGCAGGGGCCCTGAGGCTGATGCGCACCCGAAG
CCGGAGGCCGTGGTCTGGAGGGGAAGTACTGGAAGCGGCGCATCGAGGTGGTGTATCGGGGAATACCAACAAGTGG
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCAGCAGGGGAAGATGACCTCCTGGCCCCCTAAGCAGGCGGAAGGC
AGGTGGCCCGCGCGGAGCAATGGTGAAACAGCTCTTCTCCAGTGTGGTCCCCGTGCTGCTGGGGGACCCAGAG
GAGGAGCCGGGTGGGCGGCGAGCTCCTGGACCTCAATTGCTTTTGTCCGACATCTCAGACACTCTCTTACCATG
ACTCAGTCCGGCCCTTCGCCCTGCAGCTGCCGCTGAGGATGCCTACGTCCGCAATGCTGACATGATCCAGCCG
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACCAACTCCCGCTCCCA
CAGCCGCCCATGCCTTCAAACCTTCCCAGAGCCCCCAGCTTCAGCCCCGTGGTTGACTCCCTCTTCAGCAGTGGG
ACCCTGGGCCCAGAGGTGCCCCCGGCTTCTCGGCCATGACCCACCTCTCTGGACACAGCCGTCTGCAGGCTCGG
AACAGCTGCCCTGGCCCCCTTGAGTCCAGCGCTTCTGAGTTCTGATTTCTCTCTTCTGAAGACCCCAAGCCC
CGGCTCCCAACCCCTCTGTACCCCCACCTCTGCTGCATTACCTTCCCCCTGCCAAGGTGCCAGGCTGGAGCCC
TGCCCCCACCTCCCTTCCCTCCCATGGCACCCACCTGCTTTGCTGCAGGAAGAGCCTCTCTTCTCTCCAGG
TTTCCCTTCCCCACCGTCCCTCCTGCCCCAGGAGTGTCTCCGCTGCCTGCTCCTGCAGCCTTCCCACCCACCCCA
CAGTCTGTCCCCAGCCCAGCCCCACCCCTTCCCCATAGAGCTTCTACCTTGGGGTATTTCGGAGCCTGCCCTT
GGGCTTGCTTCTCCATGCCAGAGGCAAGCCCCCGCCCCATCCCCTAGGGGACAGAAAGCCAGCCCCCTACC
TTAGCCCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAACAACCCCTGCCTCACACAGCTGCTCACAGCA
GCTAAGCCGGAGCAAGCCCTGGAGCCACCCTTGTATCCAGCACCTCCTCCGGTCCCCAGGGTCCCCGAGGAG
ACAGTCCCTGAATTCCCTGCACATTCTTCCCCGACCCCGGCCCTTACACCGCCCCGGCCACCTCCAGGCCCG
GCCACATTGGCCCCCTTCCAGGCCCTGCTTGCTCCCAAGCGGAGCGGCTCTCACCCCCAGCGCCAGCGGCAGT
GAACGGCGGCTGTGAGGGGACCTCAGCTCCATGCCAGGCCCTGGGACTCTGAGCGTCCGTGTCTCTCCCCGCAA
CCCATCTCAGCGGGGCGCTCCAGACAGCAACAAGAACCGGCTATCACACACATCTCCGCGGAGCAGAAGCGG
CGTTCAACATCAAGCTGGGGTTTGACACCTTCATGGGCTCGTGAGCACACTCAGTGGCCAGCCAGCCTCAAG
GTGAGCAAAGCTACCACGCTGCAGAAGACAGCTGAGTACATCCTTATGCTACAGCAGGAGCGTGCGGGCTTGCA
GAGGAGGCCCAGCAGCTGCGGGATGAGATTGAGGAGCTCAATGCCGCCATTAACTGTGCCAGCAGCAGCTGCCC
GCCACAGGGGTACCCATCACACACCAGCGTTTGAACAGATGCGAGACATGTTTGATGACTACGTCCGAACCCGT
ACGCTGCACAACTGGAAGTTCTGGGTGTTGAGCATCTCATCCGGCCTCTGTTTGAGTCTTCAACGGGATGGTG
TCCACGGCAAGTGTGCACACCCTCCGCCAGACCTCACTGGCCTGGCTGGACCAGTACTGCTCTCTGCCCGCTCTC
CGGCCAACTGTCTGAATCCCTACGCCAGCTGGGCACATCTACCAGTATCCTGACCGACCCGGGCCGATCCCT
GAGCAAGCCACACGGGCAGTCAAGAGGGCACCTTGGCAAACCTTTATAGTCTGGCCAGACCCTGCTGCTCAC
TCAGTGGCCTGGGGGCTGCTTTCCCTGGGCACGGGCTCCAGGGATCATCTCTGGGCACTCCCTTCTGCCCCAG
GCCCTGGCTCTGCCCTTCCCTGGGGGTGGAGCAGGCTCCAGGTTTCACTTGGCACCTCCTGGAGGTCAAGAA
GAGCAGAGTCCCGTCCCTGCTCTGCCACTGTGCTCCAGCACCCTGACCTTGGGTGACTCGTCCGCTGTCTTTGG
ACCGCTGTGTTTCAATCTGCAAAATGGGGATGGGGAAGGTTCAATCAGCAGATGACCCCCAGGCCTTGGCAGCTG
TGACATTGGGGGCTAGGCTGGCAACTCCGGGGCTCAACGGTGGAAAGAGGAGGATGCTGTTTATCTGTACCT
CCACTTGCTCCCCGACAGGTGGGGCACAGACCTCTGTTCTTGAGCAGAGAAGCAGAAAAGGAGGTTCCCTCTCTC
TGCTCCTTCACTGTGACCCAGAGGGGCTGCAGGATGGTTCCCCCTGGGAGAGGCCAGGAGGCCTGATCCCAGG
AGACACCAGGGCCAGAGTGACCACAGCAGGGCAGGCATCATGTGTGTGTGTGTGTGTGGATGTGTGTGTGGGT
TTTGTAAGAATTCTTGACCAATAAAAGCAAAACTGTCTGCTGGTTAAAAAAAAAAAAA

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FIGURE 2287

MAGALAGLAAGLQVPRVAPSPDSDDTDSEDPSLRRSAGGLRSQVIHSGHFMVSSPHSDSLPRRRDQEGSVGPS
DFGPRSIDPTLIRLFECLESLAYSGKLVSPKWKNFKGLKLLCRDKIRLNNAIWRWYIQQYVKRRKSPVCGFVTPLQ
GPEADAHKPEAVVLEGNVWKRRIEVVMREYHKWRIYYKKRLRKPSREDDLLAPKQAEGRWPPPEQWCKQLFSSV
VPVLLGDPEEEFPGGRQLLDLNCFLSDISDTLFTMTQSGPSPLQLPPEDAYVGNADMIQPDLTPLQPSLDDFMDIS
DFFTNSRLPQPPMPSNFPPEPPSFSFVVDLSLSSGTLGPEVPPASSAMTHLSGHSRLQARNSCPGPLDSSAFLSSD
FLLPEDPKPRLPPPPVPPPLLHYPPPAKVPGLEPCPPPPFPPMAPPTALLQEEPLFSRPFPPFTVPPAPGVSPPLP
APAAFPPTPQSVSPAPTFFPIELLPLGYSEPAFGPCFSMPRGKPPAPSPRGQKASPPTLAPATASPPTTAGSNN
PCLTQLLTAAKPEQALEPPLVSSILLRSPGSPQETVPEFPCTFLPPTPAPTTPRPPPGPATLAPSRPLLVPKAER
LSPPAPSGSERRLSGDLSSMPGPGTLSVRVSPPQPILSRGRPD SNKNRRITHISAEQKRRFNIKLGFDTLHGLVS
TLAQPSLVSKATTLOKTAEYILMLQQERAGLQEEAQQLRDEIEELNAAINLCQQQLPATGVPITHQRFDQMRD
MFDDYVRTRTLHNWKFVFSILIRPLFESFNGMVSTASVHTLRQTS LAWLDQYCSLPALRPTVLNSLRQLGTSTS
ILTDPGRIPEQATRAVTEGTLGKPL

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FIGURE 2288

GACGGCAAATGGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGCGGCAGAGGGTCCCGCG
GCAGTGTCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATACGTAGGAA
ATCTACCTTTCAATACGGTTCAGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGTACGGCTAG
TCAGAGACAAAGACACAGATAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCTTAAGGAAG
CCTTGACATACGATGGTGCCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAAAACAAGATA
AAGGTGGCTTTGGATTACAGAAAAGGTGGACCAGATGACAGAGGAATGGGTAGCTCTCGAGAATCTAGAGGTGGAT
GGGATTCCCGGGATGACTTCAATTCTGGCTTCAGGGATGACTTCTTAGGGGGCAGGGGAGGTAGTCGCCCAGGCG
ACCGGCGAACAGGCCCCCATGGGCAGCCGTTTCAGAGATGGCCCTCCCCTCCGTGGATCCAACATGGATTTC
GAGAACCCACAGAAGAGGAAAGAGCACAGAGACCACGACTCCAGCTTAAACCTCGAACAGTCGCGACGCCCCCTCA
ATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCCTAGAGAGGAAGTCGTTCAAAAGGAGCAAG
AATGAGCCTGCGGTTGGGAGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAGCCTGGTGAGTCCCGGGCAG
CCGTCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCATGTCA
GCTGTAAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTTTGTGCGTTTTTTCT
TTCTTCCGTGCTTCCCCATTTCTCTCTGCTTTTTCTCTGCTCCTTGTTTTCCAGCAGCACATGGGGTTC
CTCGGAGGAGCAGAGGTGGCCGCCGTGGGGGGCGTTTGGGCTGCGGTGCTGCGTCATTTTCTTTGCTTTCTC
TTTACTTTTAGACTGGCCCACTCCAGGCGTTTCTTTTCATTCCCTCAGTGCTTCTCTCTGACCTGCATGTTG
AGTTCTGTATTGCTGGGGCTTCCAACAAAACCAGAGTCACTGACAGAGGGAACAGCAGAGACCTTGTGGTATT
CAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTACAACCTAGGATAAAAATATCTGCAGGGTCCTTC
CATTCTATTTAGAGGGAGTCTGGCTCCATGACCCCTCCCGAGTGGACTGTCCAAGCAGATAGGCTCACACGA
GAAACAGTGAGGCTGAAAGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGATGCAGTGAATGCTTGC
ATGCATTACACGTGTGTGTGTGCCAGCTAGTTCACTCCTTTGCGCGTGGTGGAGGCTGGCCTCTCTGGCT
GGGTGCAGTGAATGGCCAGCGGGTTCTTTTCTGCTGGGCCAAGGCGCTTTGGGGGTGGAGGGGTGGTGTGGT
GCTGCCTGGGCTGACTGCGGCGCTGACGCAGCGTTTCCCCCATCCCTGTTGCCTGTGTGTGTGTGGATCTGT
TCCTAGTATAGGCAACATAATGAGATACTGTGCTTCCACCTCCCCTTCAGTTTCAGAGCCAAAATGGGTCTAGAA
TCTGGCACTTTACTCATTTCTTTGATAAATTGTACTATGCAGAGCTGTCAGGAACCTTCAGATAGCAGTAGAGG
ACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGGACACACTGGACTGTTCCCATGTGCAGGGTTTCAGCAGTTA
TGTGGGAGTGCTAGGGGTAGGCTTTTGTAGCTTGAACGCTGCGTGTGAACAGATGAAAAATCCTTCAGTACCCA
AGTCCCAGTCTGTCTATGGGGAGCAGTTTGGGGGCGGCCGCGCAGCAGGAGCCTGGGAAAGAGGCCCTCGCCAGG
TGATGGCAGGGCCAGGGTGGCCTGGGGCACCCAGCGGAATGTGCTTAGTATTGGTCACCAGCCGTCATCCTGGG
CTTTTCTACTGTGTCTTGTGTACAAGGCCTCAGCAATCCACAGAACTCTCTCTCCTTCCCTTCCACCTGTCTAGCTT
CTCTGCTTCTGAGATAAGAACCATTGTGTAAACCAACACTTAACCTTCAGAAAGACATGCATTATGTGGTGTAA
TCAAACCCGATGCTTTCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACAAAACACATGCATCTA
AACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCCAACACTTAACACATTACGCTATATGAC
AGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAAATAAAAGAAAACCTTACGTAATATTT

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FIGURE 2289

MADFDTYDDRAYSSFGGGRGSRGSAGGHGSRSQKELPTEPPYTAYVGNLPFNTVQGDIDAIFKDLSIRSVRLVRD
KDTDKFKGFCYVEFDEVDSLKEALTYDGALLGDRSLRVDIAEGRKQDKGGFGFRKGGPDDRGMGSSRESRGGWDS
RDDFNSGFRDDFLGGRGGSRPGDRRTGPPMGSRFRDGPPLRGSNMDFREPTEEERAQRRLQLKPRTVATPLNQV
ANPNSAIFGGARPREEVVQKEQE

GACGGCAAATGCGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGCGCGCGGACGAGGGTCCCGCG
GCAGTGTCTGGTGGCCATGGTTCCTCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATACGTAGGAA
ATCTACCTTTCAATACGGTTCAGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAAGGAGTGTACGGCTAG
TCAGAGACAAAGACACAGATAAATTTAAAGGATTCTGCTATGTAGAATTTCATGAAGTGGATTCCCTTTAAGGAAG
CCTTGACATACGATGGTGCCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAAAACAAGATA
AAGGTGGCTTTGGATTAGAAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGACTTCTTAGGGGGCAGGGGAG
GTAGTCGCCCAGGCGACCGGCGAACAGGCCCCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCTCCGTGGAT
CCAACATGGATTTAGAGAACCACAGAAAGAGGAAAGAGCACAGAGACCACGACTCCAGCTTAAACCTCGAACAG
TCGCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCCTAGAGAGGAAGTCG
TTCAAAAGGAGCAAGAATGAGCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAGCCTGG
TGAGTCCCCGGGCAGCCGCTCTGCAGCCGCCACTCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCT
TGTGAGTGCATGTCAGCTGTTAACAAGTGGTTTTTGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTT
TGTGCGTTTTTTTTCTTCTTCCGCTGCTTCCCCATTTCCTTCTGTCTTTTTCTCCTGCTCCTTGTTTTCCCAG
CAGCACATGGGGTTCCTCGGAGGAGCAGAGGTGGCCGCGTGGGGGGCGTTGGGCTGGGCTGCTGCGTCATTT
TTCCTTTGCTTTCTCTTTACTTTAGACACTGGCCCAACTCCAGGCGTTTCTTTTATTCCCTCAGTGTCTTCTCT
CTGACCTGCATGTTGAGTTCGTATTGCTGGGCTTCCAACAAAACCAGAGTCACTGACAGAGGGAACAGCAGA
GACCTTGTTGGTATTACGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTACAAC TAGGATAAAAAATAT
CTGCAGGGTCTTTCCATTCTATTAGAGGGAGTCCTGGCTCCATGACCCCTCCCGAGTGGACTGTCCAAGCA
GATAGGCTCACACGAGAAACAGTGAGGCTGAAAGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGAT
GCAGTGAATGCTTGCATTCACACGTGTGTGTGTGCCAGCTAGTTCACTCCTTTTCGCCGTGCGTGGTGGAGG
CTGGCCTCTCTGGCTGGGTGCAGTGAATGGCCAGCGGGTTCTTTTTCTGCTGGGCCAAGGCCTTTGGGGGTGGA
GGGTTGGTGGTGGTGGTGGCTGACTGCGGCGCTGACGCAGCGTTTCCCCCATCCCTGTTGCTGTGT
GTTGTGTGGATCTGTTCTTAGTATAGGCAACATAATGAGATACTGTGCTTCCACCTCCCTTCAGTTTCAGAGCC
AAAATGGGTCTAGAATCTGGCACTTTACTCATTTCTTTGATAAATTGTACTATGCAGAGCTGTCAGGAACCTTC
AGATAGCAGTAGAGGACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGGACACACTGGACTGTTCCCATGTGC
AGGGTTTACGAGTTATGTGGGAGTGTAGGGTTAGGCTTTTGTAGCTTGAACGCTGCGTGTGAACAGATGAAAA
ATCCTTCAGTACCCAAGTCCAGTCTGTCTATGGGGAGCAGTTTGGGGGCGCCGGCAGCAGGAGCCTGGGAAA
GAGGCCCTCGCCAGGTGATGGCAGGGCCAGGGTGGCCTGGGGCAGCCAGCGGAATGTGCTTAGTATTGGTCAAC
AGCCGTCATCCTGGGCTTTTCTACTGTGTCTTGTTACAAGGCCTCAGCAATCCACAGAACTCTCTCTCTCTCT
TCCACCTGTGAGCTTCTCTGCTTCTGAGATAAGAACCATTGTGTAAACCAACACTTAACTTCAGAAAGACATG
CATTATGTGGTGAATCAAACCCGATGCTTTCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACA
AAACACATGCATCTAACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAAATGGAATTCAAACACTTAAACAC
ATTAGCTATATGACAGAAAGTAAATCTATGGATATGGTATTTGTGAATGATCTTTAAATAAAAGAAAACCTT
ACGTAATATTT

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FIGURE 2291

MADFDTYDDRAYSSFGGGRSGRSAGGHGSRSQKELPTEPPYTAYVGNLPFNTVQGDIDAIFKDLSIRSVRLVRD
KDTDKFKGFCYVEFDEVDSLKEALTYDGALLGDRSLRVDIAEGRKQDKGGFGFRKGGPDDRGRDDFLGGRRGGS
PGDRRTGPPMGSRFRDGPPLRGSNMDFREPTEEERAQRPRLQLKPRTVATPLNQVANPNSAIFGGARPREEVVQK
EQE

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FIGURE 2292

GGGAAGAGGAGGCGCGAGAATGGAGGTGGAGGCCGTCTGTGGTGGCGCGGGCGAGGTGGAGGCCCAGGACTCTGA
CCCTGCCCCCTGCCTTCAGCAAGGCCCCCGGCAGCGCCGGCCACTACGAACTGCCGTGGGTGAAAAATATAGGCC
AGTAAAGCTGAATGAAATTGTCGGGAATGAAGACACCGTGAGCAGGCTAGAGGTCTTTGCAAGGGAAGGAAATGT
GCCCCAACATCATCATTGCGGGCCCTCCAGGAACCGGCAAGACCACAAGCATTCTGTGCTTGGCCCCGGCCCTGCT
GGGCCCAGCACTCAAAGATGCCATGTTGGAACCTCAATGCTTCAAATGACAGGGGCATTGACGTTGTGAGGAATAA
AATTAATGTTTGCTCAACAAAAAGTCACTCTTCCCAAAGGCCGACATAAGATCATCATTCTGGATGAAGCAGA
CAGCATGACCGACGGAGCCCAGCAAGCCTTGAGGAGAACCATGGAAATCTACTCTAAAACCACTCGCTTCGCCCT
TGCTTGTAATGCTTCGGATAAGATCATCGAGCCCATTCAGTCCCGCTGTGCAGTCTCCGGTACACAAAGCTGAC
CGACGCCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTACACTGATGACGGCCTAGA
AGCCATCATCTTCACGGCCCAGGGAGACATGAGGCAGGCGCTGAACAACCTGCAGTCCACCTTCTCAGGATTTGG
CTTCATTAAACAGTGAGAACGTGTTCAAGGTCTGTGACGAGCCCCACCCACTGCTGGTAAAGGAGATGATCCAGCA
CTGTGTGAATGCCAACATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCATCTGGGCTACTCACCAGAAGA
TATCATTGGCAACATCTTTCGAGTGTGTAAACTTTCCAAATGGCAGAATACCTGAAACTGGAGTTTATCAAGGA
AATTGGATACACTCACATGAAAATAGCGGAAGGAGTGAACCTCTCTTTGCAGATGGCAGGCCTCCTGGCAAGGCT
GTGTCAGAAGACAATGGCCCCGGTGGCCAGTTAGAGCAGAGACTTCACTGACTGACTTACAGGTGCCCTATTCTG
AGGTACAGGAGCCGCGGCTTCTGATGGGGGAAAAATGCCGCCTTAGGCTGGAGCCAACATGACTGTCCTTTAAAC
TCCAGTGGCTGGCCAGGCACGGTAGCTCACGCCGTGAATCCCAACACTTTGGGAGGCCGAGGCAGGTGGATCACC
TGAGGTCAGAAGTTCAAGACCAGCCTGGCCAACATGGGGAAACCCTGTCTTTACTAAAAATATAAAAAATTAGCTG
GGTGTGGTGGCGGGCACCTGTAATCCCAGCTACTCGGGAGGCTGTGGCAGGAGAATCGCTTGAACCCAGGAGGTG
GAGGTTGCAGTGAGCCAAGATCACACCATTGCACTCCAGCCTGGGCGACAGAGTCTCCATCTGGGGAAAAAAATT
AAATAAATAAACTCCCG

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FIGURE 2293

TAAATGGCAGCCAATGGAGGGTGGTGTGCGCGGGGCTGGGATTAGGGCCGGGGCGAATGGCTGGCAATCTTACT
GGGATTACAGAACAAAGAGCCTCCCCGCGCTCCCGCTCTCCGCTCCTCTCCCCGCGCCGCCCGCCCTCCGCCGC
AGCCCGCGCCGGGGTGGGGGCGCCGAGCGCCAGCCCCCGGCCGCGCGATTCCCCCCCCGCGCCCCCTCCCCG
CGCTCCCTCCCCGCCCTCGCCGCGCCGCCGTCTCGCTCCCTCTGCCTCTCCTTCCCCCATTCTCCCGGATTA
ATTAAGGAGGCAGCGGCAGGAGGCTGAGTCCTGGCCGCGGGCCGGGGCGCGCGCTGGCAGGAGCGCTTGG
GGATCCTCCAAGGCGACCATGGCCTTGCTGGGTAAAGCGCTGTGACGTCCCCACCAACGGCTGCGGACCCGACCGC
TGGAACTCCGCGTTACCCGCAAAGACGAGATCATCACCAGCCTCGTGTCTGCCTTAGACTCCATGTGTCTCAGCG
CTGTCCAACTGAACGCCGAGGTGGCTGTGTGCGCGTGACGATGAGAGCGCCTTTGTGGTGGGCACAGAGAAG
GGGAGAATGTTCTGAATGCCCGGAAGGAGCTACAGTCAGACTTCTCAGGTTCTGCCGAGGGCCCCCGTGGGAAG
GATCCGGAGGCAGAGCACCCCAAGAGGTGCAGCGGGGCGAGGGTGGAGGCCGTAGCCTCCCTCGGTCTCCCTG
GAACATGGCTCAGATGTGTACCTTCTGCGGAAGATGGTAGAGGAGGTGTTGATGTTCTTTATAGCGAGGCCCTG
GGAAGGGCCAGTGTGGTGCCACTGCCCTATGAGAGGCTGCTCAGGGAGCCAGGGCTGCTGGCCGTGCAGGGGCTG
CCCGAAGGCCCTGGCCTTCCGAAGGCCAGCCGAGTATGACCCCAAGGCCCTCATGGCCATCCTGGAACACAGCCAC
CGCATCCGCTTCAAGCTCAAGAGGCCACTTGAGGATGGCGGGCGGGACTCGAAGGCCCTGGTGGAGCTGAACGGT
GTCTCCCTGATTCCCAAGGGGTACGCGGACTGTGGCTGCATGGCCAGGCCCCCAAGGTGCCACCCACAGGACCTG
CCCCCAACCGCCACCTCCTCCTCCATGGCCAGCTTCTGTACAGCACGGCGCTCCCCAACCACGCCATCCGAGAG
CTCAAGCAGGAAGCACCTTCTGCCCCCTTGCCCCCAGCGACCTGGGCCTGAGTCGGCCCATGCCAGAGCCCAAG
GCCACCGGTGCCCAAGACTTCTCCGACTGTTGTGGACAGAAGCCCACTGGGCCTGGTGGGCCTCTCATCCAGAAC
GTCCATGCCTCCAAGCGCATTCTTCTCCATCGTCCATGACAAGTCAGAGAAGTGGGACGCCCTTCATAAAGGAA
ACCGAGGACATCAACACGCTCCGGGAGTGTGTGCAGATCCTGTTTAAACAGCAGATATGCGGAAGCCCTGGGCCTG
GACCACATGGTCCCCGTGCCCTACCGGAAGATTGCCGTGTGACCCGGAGGCTGTGGAGATCGTGGGCATCCCGGAC
AAGATCCCCCTTCAAGCGCCCCGTGACTTATGGAGTCCCCAAGCTGAAGCGGATCCTGGAGGAGCGCCATAGTATC
CACTTCATCATTAAAGAGGATGTTTGTATGAGCGAATTTTACAGGGAACAAGTTTACCAAAGACACCACGAAGCTG
GAGCCAGCCAGCCCGCCAGAGGACACCTCTGCAGAGGTCTCTAGGGCCACCGTCCTTGACCTTGCTGGGAATGCT
CGGTGAGACAAGGGCAGCATGTCTGAAGACTGTGGGCCAGGAACCTCCGGGGAGCTGGGCGGGCTGAGGCCGATC
AAAATTGAGCCAGAGGATCTGGACATCATTAGGTACCGTCCCAGACCCCTCGCCAACCTCTGAGGAAATGACA
GACTCGATGCCGCGGACCTGCCATCGGAGGATTCTGGTTATGGGATGGAGATGCTGACAGACAAAGGTCTGAGT
GAGGACGCGCGGCCGGAGGAGAGGCCGTGGAGGACAGCCACGGTGACGTGATCCGGCCCTGCGGAAGCAGGTG
GAGCTGCTCTTCAACACACGATACGCCAAGGCCATTGGCATCTCGAGCCCGTCAAGGTGCCGTACTCCAAGTTT
CTGATGCACCCGAGGAGCTGTTTGTGTGGGACTGCCTGAAGGCATCTCCCTCCGAGGCCCAACTGCTTCGGG
ATCGCCAAGCTCCGGAAGATTCTGGAGGCCAGCAACAGCATCCAGTTTGTATCAAGAGGCCCGAGCTGCTCACT
GAGGGAGTCAAAGAGCCCATCATGGATAGTCAAGGAAGTGCCTCCTCACTTGCTTCTCTCCCCCTGCCCTGCC
CCAGAGAGGGATTCCGGGGACCCCTCTGGTGGACGAGAGCCTGAAGAGACAGGGCTTTCAAGAAAATTATGACGCG
AGGCTCTCACGGATCGACATCGCCAACACACTAAGGGAGCAGGTCCAGGACCTTTTCAATAAGAAATACGGGGAA
GCCTTGGGCATCAAGTACCCGGTCCAGGTCCCCCTACAAGCGGATCAAGAGTAACCCCGGCTCCGTGATCATCGAG
GGGCTGCCCCCAGGAATCCCGTTCGGAAGCCCTGTACCTTCGGCTCCCAAGACCTGGAGAGGATTCTTGCTGTG
GCTGACAAGATCAAGTTCACAGTCACCAGGCCCTTCCAAAGGACTCATCCCAAGCCTGATGAAGATGACGCCAAC
AGACTCGGGGAGAAGGTGATCCTGCGGGAGCAGGTGAAGGAAGTCTTCAACGAGAAATACGGTGAGGCCCTGGGC
CTGAACCGGCCGTGCTGGTCCCTTATAAACTAATCCGGGACAGCCAGACGCCGTGGAGGTACGCGGTCTGCCCT
GATGACATCCCTTCCGGAACCCCAACAGTACGACATCCACCGGCTGGAGAAGATCCTGAAGGCCCGAGAGCAT
GTCCGATGGTTCATTAACAGCTCCAACCCCTTTGAGAAATCTGCAATGATGCCAAGGTGCCAGCCAAAGAC
AGCAGATTCCCAAGCGCAAGAGAAAGCGGGTCTCGGAAGGAAATTCCGTCTCCTCTTCTCCTCGTCTTCTCT
TCCTCGTCTCTAACCCGGATTACGTGGCATCGGCCAACAGATCTCACTCGTGCAATGGCCAATGTACATGGTG
GACTATGCCGCGCTGAACGTGACGCTCCCGGGACCTTTAATTACTAGACCTCAGTACTGAATCAGGACCTCACT
CAGAAAGACTAAAGGAAATGTAATTTATGTACAAAATGTATATTCCGATATGTATCGATGCCTTTTAGTTTTCC
AATGATTTTTACTATATTCTGCCACCAAGGCCTTTTAAATAAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2294

MALLGKRCDVPTNGCGPDRWNSAFTRKDEIITSLSVSAIDSMCSALSKLNAEVACVAVHDESAFVVGTEKGRMFLN
ARKELQSDFLRFCRGPPWKDPEAEHPKKVQRGEGGGRSLPRSSLEHGSDVYLLRKMVEEVFDVLYSEALGRASVV
PLPYERLLREPGLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRPLEDGGGRDSKALVELNGVSLIPK
GSRDCGLHGQAPKVPPQDLPTATSSSMASFLYSTALPNHAIRELKQEAPSCPLAPSDLGLSRPMPEPKATGAQD
FSDCCGQKPTGPGGPLIQNVHASKRILFSIVHDKSEKWDAFIKETEDINTLRECVQILFNSRYAEALGLDHMPV
PYRKIACDPEAVEIVGIPDKIPFKRPCTYGVPKLRILEERHSIHFIKRMFDERIFTGNKFTKDTTKLEPASPP
EDTSAEVSRAVTLDLAGNARSDKGSMSEDCGPGTSGELGGLRPIKIEPEDLDIIQVTVDPSPSTSEEMTDSMPGH
LPSEDSGYGMEMLTDKGLSEDARPEERPVEDSHGDVIRPLRKQVELLFNTRYAKAIGISEPVKVPYSKFLMHPEE
LFVVGLEPEGISLRRPNCFGIAKLRKILEASNSIQFVIKRPPELLTEGVKEPIMDSQGTASSLGFSPPALPPERDSG
DPLVDESLKRQGFQENYDARLSRIDIANLREQVQDLFNKKYGEALGIKYPVQVPYKRIKSNPGSVIIEGLPPGI
PFRKPCFTGSONLERILAVADKIKFTVTRPFQGLIPKPEDDANRLGEKVILREQVKELFNEKYGEALGLNRPVL
VPYKLIRDSPDAVEVTGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPF AEICNDAKVPAKDSSIPKR
KRKRVSEGNVSSSSSSSSSSSSSNPDSVASANQISLVQWPMYMDYAGLNVQLPGPLNY

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FIGURE 2295A

AGGAGGAGGAGGGTGAGAGAGAAGCTGGGAGAGCAGAGAAAAGGGGCCACCGGTCGCCCCCGCTTCCCCGCAC
GCGCTCTCCAGCCGCGGCCGCCCGCTGCCGCGGTACCCCGGCCCTCTGCCTCTGTCCCCAGTGATCGGATCAA
GGCGCTGAGCGAGGCCCTGCCTGCGGGGCGGCCATGCGGCGGTGACAGGAGCGCGACCGACACGCACGGGCCCT
CGCCCCCTCTCGCTCCCGTCCGCTCGCCAGCTCCCTCAGCCGAGGCTGCTCCGCGGCGGCCGACGCCCGCGG
CGGCCACACTCGCTCCCTCGGCACCCCCGCGCCCGGAGCTGCCTGGAGGCGGCCGCACTCGGGGATCATGSC
CCAAGTTGCAATGTCCACCTCCCGTTGAAGATGAGGAGTCTCGGAGAGCAGGATGGTGGTGACATTCTCAT
GTCAGCTCTCGAGTCCATGTGTAAAGAACTGGCCAAGTCCAAAGCCGAAGTGGCCTGCATTGCAGTGTATGAAAC
AGACGTGTTTTGCTGCGGAAGTGAAGAGGACGTGCTTTTGTCAATACCAGAAAGGATTTTCAAAAAGATTTGT
AAAATATTGTGTTGAAGAAGAAGAAAAGCTGCAGAGATGCATAAAATGAAATCTACAACCCAGGCAAATCGGAT
GAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGAGGACTATTTCTGCTTTTGCTATGGGAAAGC
TTTAGGCAAATCCACAGTGGTACCTGTACCATATGAGAAGATGCTGCGAGACCAGTCGGCTGTGGTAGTGCAGGG
GCTTCCGGAAGGTGTTGCCCTTTAAACACCCCGAGAAGTATGATCTTGCAACCCCTGAAATGGATTTTGAGAAACA
AGCAGGGATTTTCAATCATCATTAAAGACCTTTTTTAGAGCCAAAGAAGCATGTAGGTGGTGTGTGTGTTAAC
AGATGCTGACAGGTCAATACTATCTCCAGGTGGAAGTTGTGGCCCCATCAAAGTGAAACTGAACCCACAGAAGA
TTCTGGCATTTCCTTGAAATGGCAGCTGTGACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAA
CATTCAAGCAGGCCCTTCTGAACTGATGATGTTGATGAAAAACAGCCCTATCGAAGCCTTTGCAAGGAAGCCA
CCATTCTTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATTCTACTCAACATGTCCCTTCAGA
AACAAAGTGAGGACCCTGAAGTTGAGGTGACTATTGAAGATGATGATTATCTCCACCGTCTAAGAGACCAAAGGC
CAATGAGCTACCGCAGCCACCAGTCCCGGAACCCGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGA
GAAATGGAATGCTCGCATCACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAAGGAAATATGCTCAAGCCAT
AAAAGCCAAAGGTCCGGTGACGATCCCGTACCTCTTTTCCAGTCTCATGTTGAAGATCTTTATGTAGAAGGACT
TCCTGAAGGAATTCCTTTTAGAAGGCCATCTACTTACGGAATTCCTCGCTGGAGAGGATATTACTTGCAAAGGA
AAGGATTGTTTTGTGATTAAAGAACATGAGCTTCTGAATTCACACGTGAAGATTTACAGCTTGATAAGCCAGC
TTCAGGAGTAAAGGAAGAATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAA
ATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAAAAATTTGAGGCACACCCGAATGATCT
GTACGTGGAAGGACTGCCAGAAACATTCTTTCCGAAGTCCCTCATGGTATGGAATCCCAAGGCTGGAAAAAAT
CATTCAAGTGGGCAATCGAATTAAATTTGTTATTAAAGACCAGAACTTCTGACTCACAGTACCACTGAAGTTAC
TCAGCCAAGAACGAATACACCAAGTCAAGGAAGATTGGAATGTCAGAATTACCAAGCTACGGAAGCAAGTGGAAGA
GATTTTTAATTTGAAATTTGCTCAAGCTCTTGACTACCGAGGCAGTAAAGTACCATATCCTGTGTTTGAATC
AAACCCGGAGTTCTGTATGTGGAAGGCTTGCCAGAGGGGATTCCCTTCCGAAGCCCTACCTGGTTTGGAATTCC
ACGACTTGAAAGGATCGTCCGCGGGAGTAATAAAATCAAGTTCTGTTGTTAAAAAACCTGAACTAGTTATTTCCCTA
CTTGCTCTGGGATGGCTAGTAAATAAACACTAAAGCTTTGCAGTCCCCCAAAGACCAGGAAGTCTGGGAG
TAATTCAAAGGTTCTTGAAATTGAGGTACCGTGGAGGCCCTAATAACAACAATCCTCAAACCTCAGCTGTTTCG
AACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACGAGGGAGAGAGTTTTCTTTGAGGCCTGGAA
TGCCAAAATCACGGACCTAAACAGAAAGTTGAAAATCTCTTCAATGAGAAATGTGGGAAGCTCTTGCCCTTAA
ACAAGCTGTGAAGGTGCCGTTTCGCTTATTTGAGTCTTTCCCGGAAGACTTTTATGTGGAAGGCTTACCTGAGGG
TGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGATACTCAGAAACAAAGCCAAAATTAA
GTTTCATCATTAAAAAGCCGAAATGTTTGAGACGGGATTAAGGAGAGCACCTCCTCTAAGAGCCCTCCAGAAA
AATAAATTCATCACCAATGTTAATACTACTGCATCAGGTGTTGAAGACCTTAACATCATTAGGTGACAATTCC
AGATGATGATAATGAAAGACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAGTGAATGACCTCTTAG
TCGGAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCTACAGGAAAATCACAATTAACCTGG
CTGTGTGGTGGTTGATGGCATGCCCCGGGGGTGTCTTCAAAGCCCCAGCTACCTGGAATCAGCTCCATGAG
AAGGATCTTAGACTCTGCCGAGTTTATCAAATTCAGGTCATTAGACCATTCCAGGACTTGTGATTAATAACCA
GCTGGTTGATCAGAGTGAGTCAGAAGGCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTTCCAGC
CACAGAAGAAATAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCACGTGGTAGACCTCTTC
CCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTCGGACCTGTTACTACCCCAAGCTGTGTAATATACT
TGTATAACAGAAATACCTTCTATACAAACCTTTTTTCTACTTTTAGATAGAAATGTCTACTTTTTTCAGCAGTTC
TGTGAATTAAGAGCAGAGTGAAGTGTGGGTCTGGAATGGCTGGTGTACTTGGGAATGTACTATCAGGATTTTACA

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FIGURE 2295B

GCAATGCTGGGAAATGACAGGGAAAATGACAGGAATGAATCTCACCAGATTTTTATGTACTCAGCAGAGCCTTG
AGTTACGGTGTTTTATTTTCCAATCAAGTGAAGATATCTCCTACTTCTCCTACTGGAACATCTCAGCTTCTGCAGT
GAAGAAAAATTCCTGTGATAGTTCAGTTCCTTAGTTTTCTATTTGAAAAAAAAAATCATTAAATGATCCTTT
GTTACACGGCTCTCCTTAATGACTGAGTGAACAGTTCCTATCTGTATATTTGACTAAACCTTTTCCTAAGCTATCT
CTCATGGTTCCATGTTTTTTTTATCATAATTAAGCAAAACCATCTGGATCACCTAACAGTCAGAGGTCAGTAT
CTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTTCCACTTTTACTTTTCGTCCAAATAAAATGCATG
GTGTACCAGAAGTTGAAGATCGGGTTGAGGATTGGGGCTAGCTCGATGACACTAAGGCCCCAACATCGCGGGACC
TGCTGTGGCGCGGATTCTTAGGAACGCTGTTCTAGCCGGCCCCCTCTCCAGGGGTGCGGTGGCCGGCATTATTTT
CTAGTTCTTCTTGTAACCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGGTGAGGGGGCTAAGGATGCAACCTCTG
ACGTTCTGCGCCTTCCTAGGAGAGTCTTACATGTGTTGAGATTTACAAGCAATGCGAGTTGTAAAAATACCAGCT
CTACAAGAAGCTAGGCTCTGTGACGGCATAGTTTTAGTAGCTTTATCACAATATTCACAATGGAGAATTATATG
ACATGGTAGCAGAAATAGGCCCTTTTATGTGTTGCTTCTATTTTACCTCAAATTGTAGATATAGGGTAATCAATA
AAATCCATCCATGCCTTTTACACACTAAAAAGTCGGA

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FIGURE 2296

MAQVAMSTLPVEDEESSESRMVVTFILMSALESMCKELAKSKAEVACIAVYETDVFVVGTERGRAFVNTRKDFQKD
FVKYCVEEEEKAAEMHKMKSTTQANRMSVDAVEIETLRKTVEDYFCFCYGKALGKSTVVPVPEKMLRDQSAVVV
QGLPEGVAFKHPENYDLATLKWILENKAGISFIIKRPFLPKKHVGGVMVTDADRSILSPGGSCGPIKVKTEPT
EDSGISLEMAAVTVKEESEDPDYYQYNIQAGPSETDDVDEKQPLSKPLQGSCHSSEGNEGTEMEVPAEDSTQHVP
SETSEDPEVEVTIEDDDYSPPSKRPKANLPQPPVPEPANAGKRKREFNFEEKWNARITDLRKQVEELFERKYAQ
AIKAKGPVTIPYPLFQSHVEDLYVEGLPEGIPFRPSTYGIPRLERILLAKERIRFVIKKHELLNSTREDLQLDK
PASGVKEEWYARITKLRKMVDQLFCKKFAEALGSTEAKAVPYQKFEAHPNDLYVEGLPENIPFRSPSWYGIPRLE
KIIQVGNRIKFVIKRPPELLTHSTTEVTQPRNTNPVKEDWNVRITKLRKQVEEIFNLKFAQALGLTEAVKVPYPVF
ESNPEFLYVEGLPEGIPFRSPTWFGIPRLERIVRGSNKIKFVVKPELVISYLPFGMASKINTKALQSPKRPRSP
GSNSKVPEIEVTVEGPNNNNPQTSAVRTPTQTNGSNVPFKPRGREFSFEAWNAKITDLKQKVENLNFNEKCGEALG
LKQAVKVPFALFESFPEDFYVEGLPEGVPFRPSTFGIPRLEKILRNKAKIKFIKKPEMFETAIKESTSSKSPP
RKINSSPNVNTTASGVEDLNIIQVTIPDDDNERLSKVEKARQLREQVNDLFSRKFGAIGMGFPVKVPYRKITIN
PGCVVVDGMPPGVSFKAPSYLEISSMRRIILDSAEFIKFTVIRPFPGLVINNLVDQSESEGPVIOESAEPQLEV
PATEEIKETDGSSQIKQEPDPTW

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FIGURE 2297

GCGACTTCCTCTTTCCAGTGCATTTAAGGCGCAGCCTGGAAGTGCCAGGGAGCACTGGAGGCCACCCAGTCAATGG
GGGACACCTTCATCCGTCACATCGCCCTGCTGGGCTTTGAGAAGCGCTTCGTACCCAGCCAGCACTATGTGTACA
TGTTCCCTGGTGAAATGGCAGGACCTGTCTGGAGAAGGTGGTCTACCGGCGCTTCACCGAGATCTACGATTTCCATA
AAACCTTAAAAGAAATGTTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGGATCATCCCCACCTCCCAG
CTCCCAAGTGGTTTGACGGGCAGCGGGCCGCCGAGAACCGCCAGGGCACACTTACCGAGTACTGCGGCACGCTCA
TGAGCCTGCCCACCAAGATCTCCCGCTGTCCCCACCTCCTCGACTTCTTCAAGGTGCGCCCTGATGACCTCAAGC
TCCCCACGGACAACCAGACAAAAAGCCAGAGACATACTTGATGCCCCAAAGATGGCAAGAGTACCGCGACAGACA
TCACCGGCCCCATCATCCTGCAGACGTACCGCGCCATTGCCAACTACGAGAAGACCTCGGGCTCCGAGATGGCTC
TGTCACGGGGGACGTGGTGGAGGTCGTAGAGAAGAGCGAGAGCGGTGAGACCTCCACCTTACGGGGCTCCTTC
CCCTGGTGCTCAGGAACCCACAGCCACAAGCCCCCTGCCAAGGCTCAGGCAGCCTTGCCCCCTGGGAGGACTCCGG
CTCTGTTAGGGGGCCCTAAATGTCCTCCCCACACTGTGGGTGCGCTTCTGTCTTAGTGTGCACCTGTGGTGGCTG
TGGGCATCTGTGCTTGGCAGGCCGGGGCGGGGCATGTCTGCGTGTCTGTCTGGATGGGTATGGGACCGTCTGTT
CATTATGAAGTGGGCTCAGAGCTGTGATTCTGTGAGCATGTGTGCATGCATGCATGTGACCTCATTGTCCGGTGT
GGTGAAGGTGACATTTCCAAATCTGAGCATTGGACATCAGTGTGTCTGTGTCCCTGTGTCTCACCATCCCTGAT
GGCTGCAGGGAGCCGCTGGGCCCTGCCCCTCAGTCACATTCGCCGACCTCTGGCACAGGTTGGTGGTTCTGTGACG
ATGAAAGCAAAGCGAGGCTGGATCCAGCGTCCTTCCTCGAGCCCCTGGACAGTCTCTGACGAGACGGAAGACCCT
G

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FIGURE 2298

MGDTFIRHIALLGFEKRFVPSQHYVYVFLVKWQDLSEKVVYRRFTEIYEFHKTLEMFPIEAGAINPENRIIPHL
PAPKWFDGQRAAENRQGTLECYCSTLMSLPTKISRCPHLLDFFKVRPDDLKLPTDNQTKKPETYLMPKDGKSTAT
DITGPIILQTYRAIANYEKTSGSEMALSTGDVVEVVEKSESGQTSHLTGLLPLVLRNPQPAPCQGSGLAPGRT
PALLGALNVLPTLWVAFCLSVHPVAVGICAWQAGAGHVCVFCLDGYGTVCSL

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FIGURE 2299A

GAGCCCCAGGGAGGCGGATCTGGGCCCCGAGAAGGACACCCGCCTGGATTGCCCCGTAGGCCCGGCCCGGGCCC
CTCGGGAGCAGAACAGCCTTGGTGAGGTGGACAGGAGGGGACCTCGCGAGCAGACGCGCGGCCAGCGACAGCAG
CCCCCCCCGGCCTCTCGGGAGCCGTGGGGCAGAGGCTGCGGAGCCCCAGGAGGGGGCCAGTGTCAATTCAAAGATG
TGGCTGTGGATTTACCCAGGAGGAGTGGCGGCAACTGGACCCTGATGAGAAGATAACATACGGGGATGTGATGT
TGGAGAACTACAGCCATCTAGTTTCCTTGGCTTATGAGGTGGCAACATCTTGTACTTCGGAGATTCTGAAGCCGA
GCAACTTGCCCAAGTCCTTCTTTTCCCATTAACAAGATATGATATCACCAAGCCAAACGTCATCATTAAAGTT
GGAGCAGGGAGAGGAGCTGTGGATAACGGGAGGTGAATTTCCATGTCAACATAGTCCAGCCCCCTCACATCCTCAG
CCGAAGATCTCACTTCGTCCCAGAGGCCTTGTCTGACTGACCCCTCAGGGATCGTGGGACTTTACCAGATCGGTT
TGTAATAACACCTCGAAGACGCTATCCGATCCATCAGACCCAGTATTCTGTCCGGGGGTACTTCCCACAGTGTG
CTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCTCGCAACTCCAGGATGGTGTGTAGCCAGTGACTGTGAG
GATCGCCCCCTCTGACAGAAGATTTTACGTTCTGCGATACCAGAGCAGATAATCAGCTCAACACTGTGCTCACC
ATCAAGTAATGCCCCAGACCCATGTGCAAAGGAGACTGTACTGAGTGCCTCAAAGAGAAGAAGAAAAGGAC
AGTGGAGGAAGAAGACCAATATTCTTGTATGGCCAGGAAAATAAAGAAGGCGCCATGATAGCAGTGGCAGTGG
ACATTACGATTTGAGCCCTGGTGGCCAGTGGAGTCCCCGCTTCTTTTGTGCCTAAGCCTGGGTCTCTGAAGAG
AGGCCTCAATTTCTCAGAGCTCAGATGACCACTTGAATAAGAGATCCCGAAGCTCTTCCATGAGCTCCTTGACAGG
CGCTTACACAAGTGGCATCCCTAGCTCCAGCCGAATGCCATTACAGTTCCCTACAGCTCCACTCGAGGCATCTC
ACAGCTCTGGAAGAGAAATGGCCCCAGTTCATCACCCCTTCTTAGCCAGCCTCATCCCGCTCCCAGACACCGGA
GAGGCCAGCAAAGAAAATAAGAGAAGAAGAGCTGTGTATCATTCCAGTTCTTCAACTCCATTGGCAGCAGACAA
GGAGTCCCAGGGAGAAAAGGCTGCAGATACACCCCAAGGAAGAAACAAACTCGAATTCTCAGTCTACACCTGG
CAGCTCTGGGCAGCGTAAGCGGAAAGTTACAGTGTCTGCCTTCTCGGCGAGGGGAACAGCTGACCTTGCTCCACC
TCCCCAGCTTGGCTATTTCGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCATTACAGTGGTTCAACCA
GGCCTTGGAGGACAAGAGTGATGCTGCCTCGAAGCTGTCTACTGAGACCCACCTACCACTCAGCCTTCATTTAC
CTTIACCCTGCCTGCTGTGCAACTGCCTCCCCACCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTAGA
GAGCTTGAAGAAGATGCAGACTCCCCCGAGCCTGCCACCCTGCCCAGAATCTGTGGAGCAGCAACCACTGAGGC
CCTCTACCTCCAAAGACACCCAGCCTCCTACCCCCGCTGGGTTTATCACAGTCAGGGCCGCCAGGGCTGCTCCC
CAGCCCCCTCCTTTGACTCCAAACCCCGACCACTTGTGTTGGGCTGATCCCTGCTCCATCCATGGTACCAGCCAC
TGACACCAAGGCACCTCCAACCTTCAAGCAGAGACGGCTACCAAACCCCAAGCCACATCTGCCCCGTCCCCCGC
CCCCAAGCAAAGCTTCTGTTTGAACACAGAACACCTCACCTTCCAGCCCTGCCGCCCTGCTGCATCTTCAGC
ATCTCCCATGTTCAAGCCCATTTTACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCAACCGCCTGGCCCTTC
AGTCACAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACCACCAAGCAGCCCGACCTTCCAGCCTGT
CTTTAGCAGCATGGGGCCACCTGCATCTGTGCCCTTGCTGCTCCCTTCTTCAAGCAGACAACCTACTCCCGCCAC
TGCTCCCAACACAAGTCCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCTGC
CAGTCCATCCACAGACTCTGCTTCAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTGAGCAGCAGCAGTGTGAG
TACCACGACCAAGCAGCCGCTGCGCCTCACAGCCTTCTCTTTCGGGGCGCCCCAGGCCTCTGCTGCCAGCTT
CACCCCGGCCATGGGCTCCATATTCCAGTTTGGCAAACCTCCTGCCTTGCCACAACCAACCAAGTCAACACCTT
CAGCCAGTCCCTGCCACTGCCGTGCCAACGGCCACCAAGCAGCAGCGCTGCCGACTTGTAGTGGTTTTGGCAGCAC
CCTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCCACTTGACGTTTCAAGTAACAGAGCAACCCACGTTCAA
CATTCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATATCCGGGAGCCAACCCCAAGCCGCAATTTGGGGC
CGCTGAGGGGCAGCCACCGGGGGCCGCCAAGCCAGCCCTTACCCCAAGCTTTGGCAGCTCTTTCACTTTTGGAAA
CTCTGACGCCCCGGCCCCGGCTACTGCACCCACACCTGCACCTGCGTCCACGATCAAGATCGTGCCTGCGCACGT
GCCTACGCCCCATCCAGCTACCTTTGGCGGTGCCACGCACTCGGCGTTTGGATTGAAGCAGCGCTTCCGCTT
CGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGCTCCACTGCTGTCTTCTCTCTCGGTGCAGCCACCACTC
CGGCTTTGGAGCCACCACCAAGCCAGCAGCGGGAGCAGCAGCTCGGTGTTTGGCAGCACAAACCACTCACC
CTTACGTTTGGGGTTTCGGCAGCCCCGCTGGCAGTGGGAGCTTTGGGATCAACGTGGGCCACCCAGGCTCCAG
CGCCACCACCGGAGCTTTCAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCTTACAGGGG
CTTAGGTCAGAACGCCCTGGGCACCACCGGCCAGAGCACACCGTTTGCCTTCAACGTGGGCAGCACAACTGAGAG
CAAACCTGTGTTTGGAGGCACCGCCACCCCACTTTGGTCAGAACACCCCTGCGCCTGGAGTGGGCACATCGGG
CAGCAGCCTCTCCTTTGGGGCATCTTACGACCCCGCCCAAGGCTTTGTTGGTGTGGACCGTTTCGGCAACACTTT

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FIGURE 2299B

TGCTCACCAGCAAGAACACAGCCCGAGGAAGGGACCCAATAACCTTTCAAATGCAAACCTGCTGCCTGCGGTGAG
GGCCCAGGGTCTCTCCACGGAGAGGACAGGCATCTTCTTTCCACCAGGAAGGAGTCAGCCTGGAGCCTCTGCTA
TGTGCAAGGCGGTGTGCAAGCACC GGCTGCGGGCTCTTTGCTGTCTCTTTCTCTTTGGGGCTGGGCTGGGTGT
GCGTTCTGGTGCTGATGCTTTGGCCTGTGAGGCTGAGCTAGAGAAGTGTAGATGTTAGATGTGCCAGTACCATCC
TGCGCCTCCCAAGCATGCCCCACTCACTCACGTGCGCATCTCGACCCGTTCAATTACAGCAACGAAGAAGCCAC
CGCTAAGCGTGGTCTTTGGGGGAAGCCCGGAGGCAGTGCTCGGCACCCGGGAACGTGCTCAGGCCTCGGTGGGGCC
GGGCAGGCAGGGCGGGAGCTAGCCTGCAAGAGAAAACAGCCCCAATGCTGGGTAAAGAGAGCAGTTACCCCCATCCC
CCCCCTCCACGACCTTGGCGCCCGCCCTGTACCTGAAGGCGCCCGGGTCTGCTGCAGCGCATCTGGTACCATGT
CTTCATTCTCCTCCTGGCAGAGGGAGCACATGGAGTAGACGAGCCGCTGCAGGGAAGGGAAAGTGAGCGCGTGSC
ACAGGGCTCGCTGCTGGAACCCCTGCCAGGGCATGCAGACGCACCGGGCTAGGTGTCCCTGCCCCGGGATCCTCCA
GCTGTCTGCTCGGCATACCTAAGGAAAAGCGTGTCTCGGTTACACAGCTTCACAGGCTGCCTCAGTCCTGAAATC
CTCGCTCCTGAAATCCTTGCCCTACAGAGGAGAACTTTTGCTCCAGGGTCCCAAGCCCATTAAAGTGTGAGAACT
AAGACCAAAAACAGATGACTCCAGGTCTAAGCTGTGTGGACCTCCGAGTCCCTCAGCCACGCCTTCTCACCATCT
CACCCGAGCCACTGCAGGAAGGATCCAGCAGGACATAGTGGACCTCACGATAGCGGGATCTAAGGGGGAGACCG
CCAGGAAGTCTCCTCAGCCAGCTCACAGCAGGAGACGCCAACCCAGGCCAGCAGCGTGGCCATGGATGCCAGCC
GCTTGCGCATCCAGGTCAAAGGCAAAGATCTTCTAGGGCAGAGGGCAGAGCAGGGGTGAGCTGAGCATGCACGGA
GCAUGCTAAGGGCTGTGCACAGCTGACACAGACAACAGAACATGCAGGTAAAGCCAGGACACACAAATATTGAAAC
GGCCTATATTTAAAGGGCCAGGGTCAGAGGTAAGTGGCCTGGGGTCTCTGCCCCAAGGGCTAAGGGATCCACAT
CTCACACCTGCAGTGGGGAAAGCTTAGCTTGGGGCAAATACCGTGAATACTTTGGTACAGCAGGAAAGAGTTAA
GCGAAAGTCATCCTTTTACGCCCTTTATTACCCACTGAAAGGCACAAAATCAAACCCCATGTCTCTCTCTCTCTCT
CCTGTGCACTCACCTTGGTTCTTTCAGAAGAGCAGCCAAGTACTGGTCTTATTGCCTGGGGCGGCACAGGCAT
CGATGACATGGGAGCCTGGCGGGGGTCCAGCAGCATGGCTGGGAGACAGCTGGCCTGGCAGGCAGAGCACAGGGG
CCGGGTAAACAGAGACCCCAAGGCTAGGCCCTTCCCGTGCCTACACATTCTTCCCTTTTCTATTCTCTTGCCTAC
CCTGTCTCTGCAGAAATGAGGTGTCCGGCCCGGTACAGTGGGTGTTTCATGCAGATCTGTCTGGGCGGGAAACACCAG
CAGTCCCGGCATCAAGGAGTCCAGGAGAAAATGCTTCCCTTGGAGGCTTGTAAAGTCAAGGCTGCCAGGGAA
GAACCATTCATTCTTCTGAATTTCTCCCTGCCAGGCCCTATTTCACGGTCCATTTCATGCAACAAATGTTAC
CACAGCTATGGAGAAATCAACAGGGTGATAAGGGAATCCGGGATCCGCAGTTGAGGGAATGGGTGTCAAGCCAG
ACTGATGGGTGAGGAGCCCCCTCTACTGTTTACCAGCAGTGGGAGCCTGGGCAAGTGATTCAATCTCAAGCCCCA
CTGGCATCTCTGTAAATAGTAGGTGTGAGGATTCAATGAGCCAATATATCCAAGATACTTACGTGCCACAATTT
AATAAATGTTAGCTATTCTCTGTTGAAGCATAACCTTGGAGAAAGGTTACTTTACAGGGGGGTGAGGAGTGGGGAA
GTGAGAGCTGAGCTCATTCTTGATGGATGAGGAGTTAGTCATGTGAGGCGCTTAGGTTAAACTACATTCACTAT
AACTCAGTAAAGCAGTCCCGCCCACTCTCCGACCCATGCAGAAATAGGCCTAGAGAGTCACATGTCTCAGTTTCAG
AAATCTATCGAAGTGGCAGAGCTGGAATTCAAACACAAGCAGCCGTTCTCTGCTATTCCACCCTGGTGTCCAAGC
AACATGGTAGGGCAGAAAGGAAGAGGATCTTACAAGAGTAAGGGAAAGGGAGAGGGGCAGAGGCTGCTTCTCAGA
GCCACCAAAGGACAAAATAAGACAGGTGTGAGCCAGTGGAGGAGGCACGGGGCAGAGACCAGCCACTGTTGCTG
GCACGCTGGTGCACGTAGCACTGTGGCAGATGGACCTGGAGAGGAAGCAGGAGGGACAGCACAATGGAGCCAAGA
AAGACTTAGCATGGCCGGCGCGGTGGTTTCATGCCTGTAATCCAGCATTTTGGGAGGCCAAGGTGGGCAGATC
ACCTGAGGTGAGGAGTTTGGAGACCAGCCTGGCCACATGGAGAAATCCCGTCTCTACTAAAAATACAAAATTAGC
CAGGCATGGTGTGCTGCATGCCTGCAATCCTGTAGGGAAAAGAAAGAGAGATCAGACTGTTACTGTGTCTGTGTAGA
AAGGGAAGACATAAGAAATTCATTTTACCTGTACCTTGAACAATTGGTTGGCTGAGATGCTGTTAATTTGTGA
CTTTGCCCAAATTTGAGCTCACAAAACATGTGTTGTATGGAATCAAGGTTTAAAGGATCTAGGGCTGTGCAGG
ACATGCCCTTGTTAATAAAACGTTTACAAGC

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FIGURE 2300A

CAGCATCAATAAGGCCATTAATACGCAGGAAGTGGCTGTAAAGGAAAAACAGCCAGAACGTGCATACTGGGCAC
CCACCATGAGAAAGGGGCACAGACCTTCTGGTCTGTTGTCAACCGCCTGCCTCTGTCTAGCAACGCAGTGCTCTG
CTGGAAGTTCTGCCATGTGTTCCACAACTCCTCCGAGATGGACACCCGAACGTCTGAAGGACTCTCTGAGATA
CAGAAATGAATTGAGTGACATGAGCAGGATGTGGGGCCACCTGAGCGAGGGGTATGGCCAGCTGTGCAGCATCTA
CCTGAAACTGCTAAGAACCAAGATGGAGTACCACACCAAAAAATCCCAGGTTCCCAGGCAACCTGCAGATGAGTGA
CCGCCAGCTGGACGAGGCTGGAGAAAGTGACGTGAACAACTTTTTCCAGTTAACAGTGGAGATGTTTGACTACCT
GGAGTGTGAACTCAACCTCTTCCAAACAGTATTCAACTCCCTGGACATGTCCCGCTCTGTGTCCGTGACGGCAGC
AGGGCAGTGCCGCCTCGCCCCGCTGATCCAGGTCACTTGGACTGCAGCCACCTTTATGACTACACTGTCAAGCT
TCTCTTCAAACCTCCACTCCTGCCTCCCAGCTGACACCTGCAAGGCCACCGGGACCGCTTCATGGAGCAGTTTAC
AAAGTTGAAAGATCTGTTCTACCGCTCCAGCAACCTGCAGTACTTCAAGCGGCTCATTAGATCCCCCAGCTGCC
TGAGAACCCACCCAACTTCTGCGAGCCTCAGCCCTGTGAGAACATATCAGCCCTGTGGTGGTGATCCCTGCAGA
GGCCTCATCCCCGACAGCGAGCCAGTCTAGAGAAGGATGACCTCATGGACATGGATGCCTCTCAGCAGAAATTT
ATTTGACAACAAGTTTGATGACATCTTTGGCAGTTTATTGAGCAGTGATCCCTTCAATTTCAACAGTCAAAATGG
TGTGAACAAGGATGAGAAGGACCACTTAATTGAGCGACTATACAGAGAGATCAGTGGATTGAAGGCACAGCTAGA
AAACATGAAGACTGAGAGCCAGCGGGTGTGCTGCAGCTGAAGGGCCACGTCAGCGAGCTGGAAGCAGATCTGGC
CGAGCAGCAGCACCTGCGGCAGCAGGCGGCCGACGACTGTGAATTCTGCGGGCAGAACTGGACGAGCTCAGGAG
GCAGCGGGAGGACACCGAGAAGGCTCAGCGGAGCCTGTCTGAGATAGAAAGGAAAGCTCAAGCCAATGAACAGCG
ATATAGCAAGCTAAAGGAGAAGTACAGCGAGCTGGTTGAGAACCACGCTGACCTGGTGCGGAAGAATGCAGAGGT
GACCAAAACAGGTGTCTATGGCCAGACAAGCCCAGGTAGATTTGGAACGAGAGAAAAAGAGCTGGAGGATTTCGTT
GGAGCGCATCAGTGACCAGGGCCAGCGGAAGACTCAAGAACAGCTGGAAGTTCTAGAGAGCTTGAAGCAGGAAT
TGCCACAAGCCAACGGGAGCTTCAGGTTCTGCAAGGCAGCCTGGAACTTCTGCCAGTCAGAAGCAAACCTGGGC
AGCCGAGTTTCGCCGAGCTAGAGAAGGAGCGGGACAGCCTGGTGAGTGGCGCAGCTCATAGGGAGGAGGAATTATC
TGCTCTTCGGAAGAAGTGCAGGACACTCAGCTCAAACCTGGCCAGCACAGAGGAATCTATGTGCCAGCTTGCCAA
AGACCAACGAAAAATGCTTCTGGTGGGGTCCAGGAAGGCTGCGGAGCAGGTGATACAAGACGCCCTGAACCAGCT
TGAAGAACCTCCTCTCATCAGCTGCGCTGGGTCTGCAGATCACCTCCTCTCCACGGTCACATCCATTTCCAGCTG
CATCGAGCAACTGGAGAAAAGCTGGAGCCAGTATCTGGCCTGCCAGAAGACATCAGTGGACTTCTCCATTCCAT
AACCCTGCTGGCCCACTTGACCAGCGACGCCATTGCTCATGGTGCCACCACCTGCCTCAGAGCCCCACCTGAGCC
TGCCGACTCACTGACCAGGGCCTGTAAGCAGTATGGCAGGGAAACCTCGCCTACCTGGCCTCCCTGGAGGAGA
GGGAAGCCTTGAGAAATGCCGACAGCACAGCCATGAGGAAGTGCCTGAGCAAGATCAAGGCCATCGCGCAGGAGCT
CCTGCCAGGGGACTGGACATCAAGCAGGAGGAGCTGGGGGACCTGGTGAGCAAGGAGATGGCGGCCACTTCAGC
TGCTATTGAACTGCCACGGCCAGAATAGAGGAGATGCTCAGCAAATCCCGAGCAGGAGACACAGGAGTCAAATT
GGAGGTGAATGAAAGGATCCTTGTTGCTGTACCAGCCTCATGCAAGCTATTGAGGTGCTCATCTGGCCCTCTAA
GGACCTCCAGAGAGAGATTGTGGAGAGCGGCAGGGGTACAGCATCCCCTAAAGAGTTTTATGCCAAGAATCTCG
ATGGACAGAAGGACTTATCTCAGCCTCCAAGGCTGTGGGCTGGGGAGCCACTGTATGGTGGATGCAGCTGATCT
GGTGGTACAAGGCAGAGGGAAATTTGAGGAGCTAATGGTGTGTTCTCATGAAATTGCTGCTAGCACAGCCCAGCT
TGTGGCTGCATCCAAGGTGAAAGCTGATAAGGACAGCCCCAACCTAGCCAGCTGCAGCAGGCCTCTCGGGGAGT
GAACCAGGCCACTGCCGGCGTTGTGGCCTCAACCAATTTCCGGCAAATCACAGATCGAAGAGACAGACAACATGGA
CTTCTCAAGCATGACGCTGACACAGATCAAACGCCAAGAGATGGATTCTCAGGTAGGGTGCTAGAGCTAGAAAA
TGAATTGCAGAAGGAGCGTCAAAAACCTGGGAGAGCTTCGGAAAAAGCACTACGAGCTTGCTGGTGTGCTGAGGG
CTGGGAAGAAGGAACAGAGGCATCTCCACCTACACTGCAAGAGTGGTAACCGAAAAAGAATAGAGCCAAACCAA
CACCCCATATGTAGTAAATCCTTGTACCTATCTCGTGTGTTATTTCCCGCCACAGGCCAAATCCTTG
GAGTCCCAGGGGCACGCCACCACTGCCATTACCCAGTGCCGAGGACATGCATGCACTTCCAAAGACTCCCTCC
ATAGCGACACCCCTTTCTGTTTGGACCCATGGTTCATCTCTGTTCTTTTCCCGCCTCCCTAGTTAGCATCCAGGCTG
GCCAGTGCTGCCCATGAGCAAGCCTAGGTACGAAGAGGGGTGGTGGGGGGCAGGGCCACTCAACAGAGAGGACCA
ACATCCAGTCTGCTGCTATTTGACCCCAACAATGGGTATCCTTAATAGAGGAGCTGCTTGTGTTTGTG
ACAGCTTGAAAGGGAAGATCTTATGCCTTTTCTTTTCTGTTTCTTCTCAGTCTTTTCAAGTTTCATCATTTGCA
CAAATTTGTGAGCATCAGAGGGCTGATGGATTCCAAACAGGACACTACCCTGAGATCTGCACAGTCAGAAGGAC
GGCAGGAGTGTCTGGCTGTGAATGCCAAAGCCATTCTCCCCCTCTTTGGGCAGTGCCATGGATTTCCACTGCTT

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FIGURE 2300B

CTTATGGTGGTTGGTTGGGTTTTTTGGTTTTGTTTTTTTTTTAAGTTTCACTCACATAGCCAACTCTCCCAAAG
GGCACACCCCTGGGGCTGAGTCTCCAGGGCCCCCACTGTGGTAGCTCCAGCGATGGTGCTGCCCAGGCCTCTC
GGTGCTCCATCTCCGCCTCCACACTGACCAAGTGTGGCCACCCAGTCCATGCTCCAGGGTCAGGCGGAGCTGC
TGAGTGACAGCTTTCTCTCAAAAAGCAGAAGGAGAGTGAGTGCCTTTCCCTCCTAAAGCTGAATCCCGCGGAAAG
CCTCTGTCCGCCTTTACAAGGGGAGAAGACAACAGAAAAGAGGGACAGAGGGTTTACACAGCCCAGTTCCTCGTGAC
GAGGCTCAAAAACCTTGATCACATGCTTGAATGGAGCTGGTGAGATCAACAACACTACTTCCCTGCCGGAATGAAC
TGTCCGTGAATGGTCTCTGTCAAGCGGGCCGTCTCCCTTGGCCAGAGACGGAGTGTGGGAGTGATTCCCAACTC
CTTTCTGCAGACGTCTGCCTTGGCATCTCTTGAATAGGAAGATCGTTCCACCTTCTACGCAATTGACAAACCCG
GAAGATCAGATGCAATTGCTCCCATCAGGGAAGAACCCTATACTTGGTTTGCTACCCCTAGTATTTATTACTAAC
CTCCCTTAAGCAGCAACAGCCTACAAAGAGATGCTTGGAGCAATCAGAACTTCAGGTGTGACTCTAGCAAGGCTC
ATCTTTCTGCCCGGCTACATCAGCCTTCAAGAATCAGAAGAAAGGCCAAGGTGCTGGACTGTTACTGACTTGGAT
CCCAAAGCAAGGAGATCATTGGAGCTCTTGGGTCAAGAAAATGAGAAAAGGACAGAGCCAGCGGCTCCAACTCC
TTTCAGCCACATGCCCCAGGCTCTCGCTGCCCTGTGGACAGGATGAGGACAGAGGGCACATGAACAGCTTGCCAG
GGATGGGCAGCCCAACAGCACTTTTCTCTCTAGATGGACCCAGCATTTAAGTGACCTTCTGATCTTGGAAAA
ACAGCGTCTTCTCTTTATCTATAGCAACTCATTGGTGGTAGCCATCAAGCACTTCCCAGGATCTGCTCCAACA
GAATATTGCTAGGTTTTGCTACATGACGGGTGTGTGAGACTTCTGTTTGATCACTGTGAACCAACCCCCATCTCCC
TAGCCCCACCCCCCTCCCAACTCCCTCTCTGTGCATTTTCTAAGTGGGACATTCAAAAACTCTCTCCCAGGACC
TCGGATGACCATACTCAGACGTGTGACCTCCATACTGGGCTAAGGAAGTATCAGCACTAGAAAATTGGGCAGTCTT
AATGTTGAATGCTGCTTTCTGCTTAGTATTTTTTTGATTCAAGGCTCAGAAGGAATGGTGCGTGGCTTCCCTGTC
CCAGTTGTGGCAACTAAACCAATCGGTGTGTTCTTGATGCGGGTCAACATTCCAAAAGTGGCTAGTCTCACTT
CTAGATCTCAGCCATTCTAACTCATATGTTCCCAATTACCAAGGGGTGGCCGGGCACAGTGGCTCACGCCTGTAA
TCCCAGCACTTTGAGAGGCTGAGGTGGTAGGATCACCTGAGGTGAGGAGTCAAGACCAGCCTGTCCAACATGGT
GAAACCCCCATCTCTACTAAAAATACCAAAAATTAGCCGAGCGTAGTGACGGGTGCCGTAATCCCAGCTACTCA
GGAGGCTGAGACAGGAGAATCACCTGAACCCAGAGGCAGAGGTTCAGTGAGCTGAGATCACGCCATTGTACTC
CAGCCTGGGCAACAAGAGCAAACTCCGTCTCAAAAAAAAAAAAAAATTACAAATGGGGCAACAGTCTAGTGTA
ATGGATCAAATTAAGATTCTCTGCCAGCCGGGCACAGTGGCGCATGCCGTGTAATCCCAGAACTTTGGGAGGCCA
AGACGGGATGATTGCTTGAGCTCAGGAGTTTGAAGACCAGGCTGGGCATCATAGCAAGACCTCATCTCTACTAAAA
TTCAAAAACAAAATTAGCCGGGCATGATGGTGATGCCCTGTAGTCTCAGTAGTTGGGGAGCTAAGGTGGGAGAA
TTGCTTGAGCTTGGGAAGTCGAGGCTGCAGTCAGCCCTGATTGTGCCAGTGCACTCCGGCCTGGGTGACAGAGTG
AGACCCTGTCTCAAAAAAAAAAAGATTCTGTGTGAGAGCCAGCCAGGAGTTTGAAGGCTGCAATGAGCCATGAT
TTCCCACTGCACTCCAGCCTGAGTGACAGAGCGAGACTCCATCTCTTTAAAAACAAACAAAAATTATCTGAATG
ATCCTGTCTCTAAAAAGAAGCCACAGAAATGTTTAAAAACTTCATCGACTTAGCCTGAGTCATAACGGTTAAGAA
AGCACTTAAACAGAAGCAGAGGCTAATTCAGTGTACATGAGGAAGTAGCTGTGAGATGTACATAATTACTTTT
GTAATAGCTCAGATTAGAATGGCTACCCATTCTCTAGACAAAATCAAATTGTCCTATTGTGACTCTTCTAAAAA
TGAAGATGAAGAGCTATTTAATGACACACCTTGGATTAAACGGGAATCACATCTTAAAGCTAAAAATGAACCTG
CAAGCCTTCTAAATGAGTCACTGAGCATCACTAGTGACAAGTCTCGGGTGAGCGTAAATGGGTGATGACAAGATG
GGACAGCAACAAAATCATGGCTTAGGATCGACAAGAAGTTAAAAACAGCTGCATCTGTTACTTAAAGTTTGTAAAG
ACAGTGCCCTGAGACCTTAGAGAAAAGATGTTTGTACATAAGAGAAAGAGGCCAGACATGGTGTCTCACACG
TTTAATCCCAGCACTTTGGGAGGCAGGGCGGGTGGATCACCTGAGGTGAGGAGTTCAAGACTAGCCTGGCCAAC
ATGGTGAAACCCCGTCTCTACTAAAAATACAAAATTAGCCGGGCATGGTGGCAGGCGCTATAATCCCAGCTAC
TGGGGAGGCTGAGGCAGGAGAATC

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FIGURE 2301

ATGGGGCGGGGCTCTGGGAGGCGTGGCCTCCGGCCGGCTCCTCTGCTGTTGCCAAGGGAACTGCCGCGAGGAG
GCGGAAGGAGCAGAGGACCGGCAGCCGGCGTCGAGGCGGGGCGCGGGAACGACGGCGGCCATGGCGGCCCTCGGGG
CCCGGGTGTGCGAGCTGGTGCTTGTGTCCCGAGGTGCCATCCGCCACCTTCTTCACTGCGCTGCTCTCGCTGCTG
GTTTCCGGGCCCTCGCCTGTTCCCTGCTGCAGCAGCCCTGGCGCCCTCGGGCCTCACGCTGAAGTCCGAGGCCCTT
CGCAACTGGCAAGTTTACAGGCTGGTAACCTACATCTTTGTCTACGAGAAATCCCATCTCCCTGCTCTGCGGCGCT
ATCATCATCTGGCGCTTTGCTGGCAATTTGAGAGAAACCGTGGGCACCGTCCGCCACTGCTTCTTACCCTGATC
TTCGCCATCTTCTCCGCTATCATCTTCCGTGTCATTGAGGCTGTGTCACTACTGTCAAAGCTGGGGGAAGTGGAG
GATGCCAGAGGTTTACCCCCAGTGGCCTTTGCCATGCTGGGAGTCACCACCGTCCGTTCTCGGATGAGGCGGGCC
CTGGTGTGTTGGCATGTTGTGCCCTCAGTCCTGGTTCGGTGGCTCCTGCTGGGTGCCTCGTGGCTCATTCCCCAG
ACCTCTTTCTCAGTAATGTCTGCGGGCTGTCCATCGGGCTGGCCTATGGCCTCACCTACTGCTATTCCATCGAC
CTCTCAGAGCGAGTGGCACTGAAGCTCGATCAGACCTTCCCCTTACGCTGATGAGGAGGATATCCGTGTTCAAG
TACGTCTCAGGGTCTTACAGCCGAGAGAGGGGAGCCAGAGCCGGAACTGAACCCGGTGCCTGGCTCCTACCCC
ACACAGAGCTGCCACCCTCACCTGTCCCCAAGCCACCCTGTGTCCAGACGCAGCACGCCAGTGGTCAGAAGCTG
GCCTCCTGGCCCTCCTGCACCCCCGGGCACATGCCACCTTGCCCTCCGTACCAGCCTGCCTCCGGCCTGTGCTAT
GTGCAGAACCACCTTTGGTCCAAACCCACCTCCTCCAGTGTCTACCCAGCTTCTGCGGGCACCTCCCTGGGCATC
CAGCCCCCAGCGCTGTGAACAGCCCTGGCACGGTGTATTCTGGGGCCTTGGGCACACCAGGGGCTGCAGGCTCC
AAGGAGTCCTCCAGGGTCCCCATGCCCTGAGAGAATTTCTAGGGAAGTCATCTCACTTGGCCTTCTGAAGGTCCT
CCCTAAGAGTCTCCTGACAAAAGTTACTTATTGA

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FIGURE 2302

GTTTCATGATCAACATGGGAGACTCCACGTGGACACCAGCTCCACCGTGTCCGAGGCGGTGGCCGAAGAAGTAT
CTCTTTTCAGCATGACGGACATGATTCTGTTTTCGCTCATCGTGGGTCTCCTAACCTACTGGTTCTCTTCAGAA
AGAAAAAGAAGAAGTCCCCGAGTTCACCAAAATTCAGACATTGACCTCCTCTGTCAGAGAGAGCAGCTTTGTGG
AAAAGATGAAGAAAACGGGGAGGAACATCATCGTGTTCTACGGCTCCAGACGGGGACTGCAGAGGAGTTTGCCA
ACCGCCTGTCCAAGGACGCCCCACCGCTACGGGATGCGAGGCATGTGTCAGCGGACCCTGAGGAGTATGACCTGGCCG
ACCTGAGCAGCCTGCCAGAGATCGACAACGCCCTGGTGGTTTTCTGTCATGGCCACCTACGGTGAGGGAGACCCCA
CCGACAATGCCCAGGACTTCTACGACTGGCTGCAGGAGACAGACGTGGATCTCTCTGGGGTCAAGTTCGCGGTGT
TTGGTCTTGGGAACAAGACCTACGAGCACTTCAATGCCATGGGCAAGTACGTGGACAAGCGGCTGGAGCAGCTCG
GCGCCAGCGCATCTTTGAGCTGGGGTTGGGCGACGACGATGGGAACTTGGAGGAGGACTTCATCACCTGGCGAG
AGCAGTTCTGGCCGGCCGTGTGTGAACACTTTGGGGTGGAAAGCCACTGGCGAGGAGTCCAGCATTGCGCAGTACG
AGCTTGTGGTCCACACCGACATAGATGCGGCCAAGGTGTACATGGGGGAGATGGGCCGGCTGAAGAGCTACGAGA
ACCAGAAGCCCCCTTTGATGCCAAGAATCCGTTCTGGCTGCAGTCACCACCAACCGGAAGCTGAACCAGGGAA
CCGAGCGCCACCTCATGCACCTGGAATTGGACATCTCGGACTCCAAAATCAGGTATGAATCTGGGGACCACGTGG
CTGTGTACCCAGCCAACGACTCTGCTCTCGTCAACCAGCTGGGCAAAATCCTGGGTGCCGACCTGGACGTGCTCA
TGTCCTGAACAACCTGGATGAGGAGTCCAACAAGAAGCACCCATTCCCGTGCCCTACGTCTACCGCACGGCCC
TCACCTACTACCTGGACATCACCAACCCGCGCGTACCAACGTGCTGTACGAGCTGGCGCAGTACGCCTCGGAGC
CCTCGGAGCAGGAGCTGCTGCGCAAGATGGCTCCTCCTCCGGCGAGGGCAAGGAGCTGTACCTGAGCTGGGTGG
TGGAGGCCCGGAGGCACATCCTGGCCATCCTGCAGGACTGCCCCGTCCCTGCGGCCCCCATCGACCACCTGTGTG
AGCTGCTGCCGCGCCTGCAGGCCCCGCTACTACTCCATCGCCTCATCCTCCAAGTCCACCCCAACTCTGTGCACA
TCTGTGCGGTGGTTGTGGAGTACGAGACCAAGGCTGGCCGCATCAACAAGGGCGTGGCCACCAACTGGCTGCGGG
CCAAGGAGCCTGCCGGGGAGAACGGCGGCCGTGCGCTGGTGCCCATGTTCTGTGCGCAAGTCCCAGTTCGCGCTGC
CCTTCAAGGCCACCACGCCTGTATCATGTTGGGCCCCGGCACCGGGGTGGCACCCTTCATAGGCTTCATCCAGG
AGCGGGCCTGGCTGCGACAGCAGGGCAAGGAGTGGGGGAGACGCTGCTGTACTACGGCTGCCGCGCTCGGATG
AGGACTACCTGTACCGGGAGGAGCTGGCGCAGTTCCACAGGGACGGTGGCGCTCACCAGCTCAACGTGGCCTTCT
CCCGGGAGCAGTCCACAAAGTCTACGTCCAGCACCTGCTAAAGCAAGACCGAGAGCACCTGTGGAAGTTGATCG
AAGGCGGTGCCACATCTACGTCTGTGGGGATGCACGGAACATGGCCAGGGATGTGCAGAACACCTTCTACGACA
TCGTGGCTGAGCTCGGGGCCATGGAGCACGCGCAGGCGGTGGACTACATCAAGAACTGATGACCAAGGGCCGCT
ACTCCCTGGACGTGTGGAGCTAGGGGCCTGCCTGCCCCACCCACCCACAGACTCCGGCCTGTAATCAGCTCTCC
TGGCTCCCTCCCGTAGTCTCCTGGGTGTGTTTGGCTTGGCCTTGGCATGGGCGCAGGCCAGTGACAAAGACTCC
TCTGGGCCTGGGGTGCATCCTCCTCAGCCCCAGGCCAGGTGAGGTCCACCGGCCCTGGCAGCACAGCCCAGGG
CCTGCATGGGGGCACCGGGCTCCATGCCTCTGGAGGCCTCTGGCCCTCGGTGGCTGCACAGAAGGGCTCTTTCTC
TCTGCTGAGCTGGGCCCAGCCCCCTCCACGTGATTCCAGTGAGTGTAATAATTTTAAATAACCTCTGGCCCTTG
GAATAAAGTTCTGTTTTCTGT

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FIGURE 2303

MTDMILFSLIVGLLTYWFLFRKKKEEVPEFTKIQTLSVRESSFVEKMKKTGRNIIIFYGSQTGTAEFANRLS
KDAHRYGMRGMSADPEEYDLADLSSLPEIDNALVVFCMATYGEQDPTDNAQDFYDWLQETDVDLSGVKFAVFGLG
NKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGDDDGNEEDFITWREQFWPAVCEHFGVEATGEESSIRQYELVV
HTDIDAAKVYMGEMGRLKSYENQKPPFDAKNPFLAAVTNTRKLNQGTERHLMHLELDISDSKIRYESGDHVAVYP
ANDSALVNQLGKILGADLDVVMNLNDEESNKKHPFCPTSYRTALTYLDITNPPRTNVLYELAQYASEPSEQ
ELLRKMASSSGEGKELYLSWVVEARRHILAILQDCPSLRPPIDHLCCELLPRLQARYYSIASSSKVHPNSVHICAV
VVEYETKAGRINKGVATNWLRAKEPAGENGGRALVPMFVRKSQFRLPFPKATTPVIMVGPGTGVPFFIGFIQERAW
LRQQGKEVGETLLYYGCRSDEDYLYREELAQFHRDGALTQLNVAFSREQSHKVYVQHLLKQDREHLWKLIEGGA
HIYVCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTKGRYSLDVWS

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FIGURE 2304

GAGGAGCCTCGGGTGGGCCGGGGTTGCTGCGCCGCTCCTCCACTACTGGCTACTGGCGCTGCAGCCATGCAGCCCC
CGCCCCCGGGCCCGCTGGGCGACTGCCTGCGGGACTGGGAGGATCTACAGCAGGACTTCCAGAACATCCAGGAGA
CCCATCGGCTCTACCGCCTGAAGCTGGAGGAGCTGACCAAATTCAGAACAAATTGCACCAGCTCCATCACGCGGC
AGAAGAAGCGGCTCCAGGAGCTGGCCCTCGCCCTGAAGAAATGCAAACCCTCCCTCCCAGCAGAGGCCGAGGGGG
CCGCACAGGAGCTGGAGAACCAGATGAAAGAGCGCCAAGGCCTCTTCTTTGACATGGAGGCCTATTTGCCTAAGA
AGAATGGATTGTACCTGAGCCTGGTTCTGGGGAACGTCAACGTCACGCTCCTGAGCAAGCAGGCTAAGTTGCCT
ACAAGGACGAGTATGAGAAGTTCAAGCTCTACCTCACCATCATCCTCATCTCCTTCACTTGCCGCTTCC
TGCTCAACTCCAGGGTGACAGATGCTGCCTTCAACTTCTGCTGGTCTGGTACTACTGCACCCTGACCATCCGGG
AGAGCATCCTCATCAACAACGGCTCCCGGATCAAAGGCTGGTGGGTGTTCCATCACTACGTGTCCACCTTCCTGT
CGGGAGTCATGCTGACGTGGCCCGACGGTCTCATGTACCAGAAATTCGGAACCAATTCCTCTCCTTTTCCATGT
ACCAGAGCTTCGTGCAGTTTCTCCAGTACTACTACCAGAGCGGCTGCCTCTACCGCCTGCGGGCGCTGGGCGAGC
GGCACACCATGGACCTCACTGTGGAGGGCTTCCAGTCTGGATGTGGCGGGGCCTCACCTTCCTGCTGCCTTTTC
TTTTCTTTGGACACTTCTGGCAGCTTTTTAACGCGCTGACGTTGTTCAACCTGGCCAGGACCCTCAGTGCAAGG
AGTGGCAGGTGCTTATGTGCGGCTTTCCCTTCCTCCTCTTTTCTCGGCAATTTCTTCACCACCCTGAGGGTTG
TGCACCACAAGTTTCACAGTCAGCGGCACGGGAGCAAGAAGGATTGAGGCTGGGCCTTCCCCTGCCGGCCAGAG
GGGCTTCTGTCTGTGTGTTGTGGGAGGGGATGGGAGGCGCCCTCGAGTGTGCGTGTATCAGGGGTCTCTTCT
ATTCTCCCTTGGGTTTTATGGGCGCTGTGGGCCCTGAAGGAAGACCTGGGCCAGTGCCTCAATAAAGAGAGGC
CCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2305

MQPPPPGPLGDCLRDWEDLQQDFQNIQETHRLYRLKLEELTKLQNNCTSSITRQKKRLQELALALKKCKPSLP
AEGAAQELENQMKERQGLFFDMEAYLPKKNGLYLSVLGNVNVTLSSKQAKFAYKDEYEKFKLYLTIILILISFT
CRFLNSRVTDAAFNFLVWYYCTLTIRE SILINNGSRIKGWVVFHHYVSTFLSGVMLTWPDGLMYQKFRNQFLS
FSMYQS FVQFLQYYYQSGCLYRLRALGERHTMDLTVEGFQSWMWRLTFLLPFLFFGHFWQLFNALTLENLAQDP
QCKEWQVLMCGFPFLLLFLGNFFTTLRVVHHKFHSQRHGSKKD

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FIGURE 2306

GGCGCTGGGCAGTGTGGAGGTCGTTGGAGTCACTTCCGCGTCACCAGCTCCTGTGCCTGCCAGTCGGTGCCCCCTC
CCGCTCCAGCCATGCTCTCCGCCCTCGCCCGGCCTGCCAGCGCTGCTCTCCGCCGCAGCTTCAGCACCTCGGCCC
AGAACAATGCTAAAGTAGCTGTGCTAGGGGGCTCTGGAGGCATCGGGCAGCCACTTTCATTCTCCTGAAGAACA
GCCCCTTGGTGAGCCGCCTGACCCTCTATGATATCGCGCACACACCCGGAGTGCCCGCAGATCTGAGCCACATCG
AGACCAAAGCCGCTGTGAAAGGCTACCTCGGACCTGAACAGCTGCCTGACTGCCTGAAAGGTTGTGATGTGGTAG
TTATTCCGGCTGGAGTCCCCAGAAAGCCAGGCATGACCCGGGACGACCTGTTCAACACCAATGCCACGATTGTGG
CCACCCTGACCGCTGCCTGTGCCCAGCACTGCCCGGAAGCCATGATCTGCGTCATTGCCAATCCGGTTAATTCCA
CCATCCCCATCACAGCAGAAGTTTCAAGAAGCATGGAGTGTACAACCCCAACAAAATCTTCGGCGTGACGACCC
TGGACATCGTCAGAGCCAACACCTTTGTTGCAGAGCTGAAGGGTTTGGATCCAGCTCGAGTCAACGTCCCTGTCA
TTGGTGGCCATGCTGGGAAGACCATCATCCCCCTGATCTCTCAGTGCACCCCAAGGTGGACTTTCCCCAGGACC
AGCTGACAGCACTCACTGGGCGGATCCAGGAGGCCGGCACGGAGGTGGTCAAGGCTAAAGCCGGAGCAGGCTCTG
CCACCCTCTCCATGGCGTATGCCGGCGCCCGCTTTGTCTTCTCCCTTGTGGATGCAATGAATGGAAAGGAAGGTG
TTGTGGAATGTTCTTTCGTTAAGTCACAGGAAACGGAATGTACCTACTTCTCCACACCGCTGCTGCTTGGGAAAA
AGGGCATCGAGAAGAACCTGGGCATCGGCAAAGTCTCCTCTTTTGAGGAGAAGATGATCTCGGATGCCATCCCCG
AGCTGAAGGCCTCCATCAAGAAGGGGGAAGATTTCGTGAAGACCCTGAAGTGAGCCGCTGTGACGGGTGGCCAGT
TTCCTTAATTTATGAAGGCATCATGTCACCTGCAAAGCCGTTGCAGATAAACTTTGTATTTTAATTTGCTTTGGTG
ATGATTACTGTATTGACATCATCATGCCTTCCAAATTGTGGGTGGCTCTGTGGGCGCATCAATAAAAGCCGTCCT
TGATTTTATTTTCAAGGTCCTTCTGTAAAAA

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FIGURE 2307

MLSALARPASAALRRSFSTSAQNNAKVAVLGASGGIGQPLSLLLKNSPLVSRLTLYDIAHTPGVAADLSHIETKA
AVKGYLGPEQLPDCLKGCDVVVIPAGVPRKPGMTRDDLFTNATIVATLTAACAQHCPEAMICVIANPVDNSTIPI
TAEVFKKHGVYNPNKIFGVTTLDIVRANTFVAELKGLDPAVNVPVIGGHAGKTIIP LISQCTPKVDFPQDQLTA
LTGRIQEAGTEVVKAAGAGSATLSMAYAGARFVFSLV DAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIE
KNLGIGKVSSFEEKMISDAIPELKASIKKGEDEFVKTLK

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FIGURE 2308

CTCAAACACCGCCTGCTAAAAATACCCGACTGGAGGAGCATAAAAGCGCAGCCGAGCCCAGCGCCCCGCACTTTT
CTGAGCAGACGTCCAGAGCAGAGTCAGCCAGCATGACCGAGCGCCGCGTCCCCTTCTCGCTCCTGCGGGGCCCCA
GCTGGGACCCCTTCCGCGACTGGTACCCGCATAGCCGCTCTTCGACCAGGCCTTCGGGCTGCCCCGGCTGCCGG
AGGAGTGGTCGCAGTGGTTAGGCGGCAGCAGCTGGCCAGGCTACGTGCGCCCCCTGCCCCCGCCGCCATCGAGA
GCCCCGCAGTGGCCGCGCCCGCCTACAGCCGCGCGCTCAGCCGGCAACTCAGCAGCGGGGTCTCGGAGATCCGGC
ACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACCACTTCGCCCCGGACGAGCTGACGGTCAAGACCAAGG
ATGGCGTGGTGGAGATCACCGGCAAGCACGAGGAGCGGCAGGACGAGCATGGCTACATCTCCCGGTGCTTCACGC
GGAAATACACGCTGCCCCCGGTGTGGACCCCAACCAAGTTTCCTCCTCCCTGTCCCCTGAGGGCACACTGACCG
TGGAGGCCCCCATGCCCAAGCTAGCCACGCAGTCCAACGAGATCACCATCCCAGTCACCTTCGAGTCGCGGGGCC
AGCTTGGGGGCCCAGAAGCTGCAAAATCCGATGAGACTGCCGCCAAGTAAAGCCTTAGCCTGGATGCCCACCCT
GCTGCCGCCACTGGCTGTGCCTCCCCCGCCACCTGTGTGTTCTTTTGATACATTTATCTTCTGTTTTCTCAAAT
AAAGTTCAAAGCAACCACCTGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 2309

MTERRVPFSLLRGPSWDFRDWYPHSRLFDQAFGLPRLPEEWSQWLGGSSWPGYVRPLPPAAIESPAVAAPAYSR
ALSRQLSSGVSEIRHTADRWVSLDVNHFAPDELTVKTGDGVVEITGKHEERQDEHGYISRCFTRKYTLPPGVDP
TQVSSSLSPGTLTVEAPMPKLATQSNEITIPVTFESRAQLGGPEAAKSDETAAK

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FIGURE 2310

ATAAAAGCGCAGCCGAGCCAGCGCCCCGCACTTTTCTGAGCAGACGTCCAGAGCAGAGTCAGCCAGCATGACCG
AGCGCCGCGTCCCCCTTCTCGCTCCTGCGGGGCCCCAGCTGGGACCCCTTCCGCGACTGGTACCCGCATAGCCGCC
TCTTCGACCAGGCCTTCGGGCTGCCCCGGCTGCCGGAGGAGTGGTCGCAGTGGTTAGGCGGCAGCAGCTGGCCAG
GCTACGTGCGCCCCCTGCCCCCGCCGCCATCGAGAGCCCCGAGTGGCCGCGCCCGCCTACAGCCGCGCGCTCA
GCCGGCAACTCAGCAGCGGGGTCTCGGAGATCCGGCACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACC
ACTTCGCCCCGGACGAGCTGACGGTCAAGACCAAGGATGGCGTGGTGGAGATCACCGGTGAGCCCCCTGCTCCT
GCAGGGGAGAGGAGGAGGCTAGCAGGGCGGGCAGGGCCGGGGCGTGCGGTTGAAACGGGGGTCCCGGGGGCCTG
GGGAGTTAAACGTTGGCCCAGCACCGGGAAAAACAGGACTCCTGATTCCCTTGCTCAGGAATTGGGAGTGCGGGT
CGCTTCTAAGGGCGCTTTCTGCTCTGTAATCCCAGCGCTTTGGGAGGCCGAGACGGGAGGATCGCTTGAGGCCAG
GAGTTCAAGACTAGCCTGGGCAACATAGCGAGACGCGCCCCCGCCCCGACCCCGCGCCATTAC

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FIGURE 2311

CAGAGTCAGCCAGCATGACCGAGCGCCGCGTCCCCTTCTCGCTCCTGCGGGGCCCCAGCTGGGACCCCTTCCGCG
ACTGGTACCCGCATAGCCGCCCTCTTCGACCAGGCCTTCGGGCTGCCCCGGCTGCCGAGGAGTGGTCGCAGTGGT
TAGGCGGCAGCAGCTGGCCAGGCTACGTGCGCCCCCTGCCCCCGCCGCGCATCGAGAGCCCCGAGTGGCCGCGC
CCGCCTACAGCCGCGCGCTCAGCCGGCAACTCAGCAGCGGGGTCTCGGAGATCCGGCACACTGCGGACCGCTGGC
GCGTGTCCTGGATGTCAACCACTTCGCCCCGGACGAGCTGACGGTCAAGACCAAGCTAGCCACGCAGTCCAACG
AGATCACCATCCCAGTCACCTTCGAGTCGCGGGGCCAGCTTGGGGGCCAGAAAGCTGCAAAATCCGATGAGACTG
CCGCCAAGTAAAGCCTTAGCCCGGATGCCCCCCCCTGCTGCCGCCACTGGCTGTGCCTCCCCCGCCACCTGTGTG
TTCTTTTGATACATTATCTTCTGTTTTTCTCAAATAAAGTTCAAAGCAACC

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FIGURE 2312A

GGACTGCGAAAGGAGCAGGGTTGCGGAGCTAGGGCTCCAGCCTGCGGCCGCGCATTCTTGGCTCTGGCCAGCCGC
GAGCTCTAAGGGTCGCCCCCGCCGGTCCGCCCGCGGCTCCCTGCCAGGCTCTCGCGGGCGCGCTCGGGGTGG
GGCCTCGCGGCTGGCGGAGATGCGGCCGGGGCTGCGCGGTGGTGATGCGAGCCTGCAGGGCGCGCGCCGGGGCA
GCCGGAGCCGCGCGCCGCGGCGCTGTAATCGGACACCAAGAGCGCTCGCCCCGGCCTCCGGCCACTTTCCATT
ACTCCGAGGTGCTTGATTGAGCGACGCGGAGAAGAGCTCCGGGTGCCGCGGCACTGCAGCGCTGAGATTCTTTA
CAAAGAACTCAGAGGACCGGGAAGAAAGATTTACCTTTGCGACGTGCTAGAAAATAAGGTCGTCTGGGAAA
GGACTGGAGACACAAGCGCATCCAACCCGGTAGCAAACCTGATGACTTTTCCGTGCTGATTTCTTCAACCTCGG
TATTTCCCTTGGATATTAACCTTGCATATCTGAAGAAATGGCATTCCGGACAATTTGCGTGTGGTTGGAGTATT
TATTTGTTCTATCTGTGTGAAAGGATCTTCCAGCCCCAAGCAAGAGTTTATTTAACATTTGATGAACCTCGAGA
AACCAAGACCTCTGAATACTTCAGCCTTTCCACCATCCTTTAGACTACAGGATTTTATTAATGGATGAAGATCA
GGACCGGATATATGTGGGAAGCAAAGATCACATTCTTCCCTGAATATTAACAATATAAGTCAAGAAGCTTTGAG
TGTTTTCTGGCCAGCATCTACAATCAAAGTTGAAGAATGCAAAATGGCTGGCAAAGATCCCACACACGGCTGTGG
GAACCTTGTCCGTGTAATTCAGACTTTCAATCGCACACATTTGTATGTCTGTGGGAGTGGCGCTTTCAGTCTGT
CTGTACTTACTTGAACAGAGGGAGGAGATCAGAGGACCAAGTTTTCATGATTGACTCCAAGTGTGAATCTGGAAA
AGGACGCTGCTCTTTCAACCCCAACGTGAACACGGTGTCTGTTATGATCAATGAGGAGCTTTTCTCTGGAATGTA
TATAGATTTTCATGGGGACAGATGCTGCTATTTTTCGAAGTTTAACCAAGAGGAATGCGGTGAGAACTGATCAACA
TAATTCCAAATGGCTAAGTGAACCTATGTTGTAGATGCACATGTCATCCCAGATGGTACTGATCCAAATGATGC
TAAGGTGTACTTCTTCTTCAAAGAAAACTGACTGACAATAACAGGAGCACGAAACAGATTCAATCCATGATTGC
TCGAATATGTCCTAATGACACTGGTGGACTGCGTAGCCTTGTCACAAGTGGACCACTTCTTAAAGCGGAGGCT
GGTGTGCTCGGTAACAGATGAAGACGGCCAGAAACACACTTTGATGAATTAGAGGATGTGTTTCTGCTGGAAAC
TGATAACCCGAGGACAACACTAGTGTATGGCATTTTTACAACATCAAGCTCAGTTTCAAAGGATCAGCCGTGTG
TGTGTATCATTTATCTGATATACAGACTGTGTTAATGGGCCTTTGCCCCACAAAGAGGGCCCAATCATCGCT
GATTTCTATCAGGGCAGAAATCCATATCCTCGCCCTGGAACCTGTCCAGGAGGAGCATTACACCCAATATGCG
AACCACCAAGGAGTTCCAGATGATGTTGTCACTTTTATTCGGAACCATCCTCTCATGTACAATTCATCTACCC
AATCCACAAAAGGCCTTTGATTGTTGCTATTGGCACTGACTACAAGTATACAAAGATAGCTGTGGATCGAGTGAA
CGCTGCTGATGGGAGATACCATGTCTGTTTCTCGGAACAGATCGGGGTACTGTGCAAAAAGTGGTTGTTCTTCC
TACTAACAACTCTGTCTAGTGGCGAGCTCATTCTGGAGGAGCTGGAAGTCTTTAAGAAATCATGCTCCTATAACAAC
AATGAAAATTTTCATCTAAAAAGCAACAGTTGTATGTGAGTTCCAATGAAGGGGTTTCCAGGTATCTCTGCACCG
CTGCCACATCTATGGTACAGCCTGTGCTGACTGCTGCTGGCGCGGACCCCTTATTGCGCCTGGGATGGCCATT
CTGTTCCAGATTCTACCCAACCTGGGAAACGGAGGAGCCGAAGACAAAGATGTGAGACATGGAACCCACTGACTCA
ATGCAGAGGATTTAATCTAAAAGCATACAGAAATGCAGCTGAAATGTCCAGTATGGAGTAAAAAATAACACCAC
TTTTCTGGAGTGTGCCCCAAGTCTCCGCAGGCATCTATCAAGTGGCTGTTACAGAAAGACAAAGACAGGAGGAA
AGAGGTTAAGCTGAATGAACGAATAATAGCCACTTCACAGGGACTCCTGATCCGCTCTGTTTCAGGGTTCTGACCA
AGGACTTTATCACTGCATTGCTACAGAAAATAGTTTCAAGCAGACCATAGCCAAGATCAACTTCAAAGTTTTAGA
TTCAGAAATGGTGGCTGTTGTGACGGACAAATGGTCCCCATGGACCTGGGCCAGCTCTGTGAGGGCTTTACCCCT
CCACCCGAAGGACATCATGGGGCATTTCAGCCACTCAGAAATGCAGATGATTAACCAATATTGCAAAGACACTCG
GCAGCAACATCAGCAGGGAGATGAATCACAGAAAATGAGAGGGGACTATGGCAAGTTAAAGGCCCTCATCAATAG
TCGGAAGTAGAAAACAGGAGGAATCAGTTGCCAGAGTCATAATATTTTCTTATGTGGGTCTTATGCTTCCATTA
ACAAATGCTCTGTCTTCAATGATCAAATTTTGAGCAAAGAACTTGTGCTTTACCAAGGGGAATTACTGAAAAAG
GTGATTACTCTGAAGTGAGTTTTACACGAACTGAAATGAGCATGCATTTTCTTGTATGATAGTACTAGCACTA
GACATGTCTGCTCATGGTGCATATAAATATATTAACTTAACCCAGATTTTATTTATATCTTTATTCACCT
TTTCTTCAAATCGATATGGTGGCTGCAAAACTAGAATTGTTGCATCCCTCAATTGAATGAGGGCCATATCCCTG
TGATTTCTCTTCTGCTTTGGGGCTTTAGAAATCTAATTGTCACTGATTTTGTATATGAAAAAAGTTCCAAAT
CCACAGCTTTTACGTAGTAAAGTCATAAATGCATATGACAGAATGGCTATCAAAAGAAATAGAAAAGGAAGACA
GCATTTAAAGTTGTATAAAAACATGAGTTATTCATAAAGAGAAAATGATGAGTTTTTATGGTTCCAATGAAATAT
GTTGGGGTTTTTTAAGATTGTAAAAATAATCAGTTACTGGTATCTGTCACTGACCTTTGTTTCTTATTCAGGA
AGATAAAAATCAGTAACCTACCCCATGAAGATATTTGGTGGGAGTTATATCAGTGAAGCAGTTTGGTTTTATATC
TTATGTTATCACCTTCCAAACAAAAGCACTTACTTTTTTTGGAAGTTATTTATTTTAGACTCAAAGAATATAATC

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FIGURE 2312B

TGGCACTACTCAGTTATTACTGTTTGTCTCTTATTCCCTAGTCTGTGTGGCAAATTAAACAATATAAGAAGGAA
AAATTTGAAGTATTAGACTTCTAAATAAGGTGTGAAATCATCAAAAAGAAAAATCAAAGTAGAACTACTAATTT
TTTAAGAGGAATTTATAACAAATATGGCTAGTTTTCAACTTCAGTACTCAAATTCATGATTCTTCCTTTTATTA
AAACCAGTCTCAGATATCATACTGATTTTTTAAGTCAACACTATATATTTTATGATCTTTTCAGTGTGATGGCAAG
GTGCTTGTTATGTCTAGAAAAGTAAGAAAACAATATGAGGAGACATTCTGTCTTTCAAAGGTAATGGTACATACG
TTCAGTGGTCTCTAAGTGTAAAAGTAGTAAATTTTGTGATGAATAAAATAATTATCTCCTAATTGTATGTTAGAA
TAATTTTATTAGAATAATTTCTACTGAAATTTTCTCCAAATAAAAATTAGATGGAAAAATGTGAAAAAAT
TATTCATGCTCTCATATATATTTTAAAAACACTACTTTTTGCTTTTTTATTTACCTTTTAAGACATTTTCATGCTT
CCAGGTAAAAACAGATATTGTACCATGTACCTAATCCAAATATCATATAAACATTTTATTTATAGTTAATAATCT
ATGATGAAGGTAATTAAAGTAGATTATGGCCTTTTAAAGTATTGCAGTCTAAAACCTCAAAAACATAAATCATTG
TCAAAATTAATATGATTATTAATCAGAATATCAGAATATGATTCATTTAAACTATGATAAATTATGATAATA
TATGAGGAGGCCTCGCTATAGCAAAAATAGTTAAATGCTGACATAACACCAAACCTCATTTTTTAAAAAATCTG
TTGTTCCAAATGTGTATAATTTTAAAGTAATTTCTAAAGCAGTTTATTATAATGGTTTGCCTGCTTAAAGGTAT
AATTAACTTCTTTTCTTCTACATTGACACACAGAAATGTGTCAATGTAAAGCCAAAACCATCTTCTGTGTTT
ATGGCCAATCTATTCTCAAAGTTAAAAGTAAATTTGTTTCAGAGTCACAGTTCCTTTTATTTACATAAGCCCAA
ACTGATAGACAGTAACGGTGTGTTAGTTTTATACTATATTTGTGCTATTTAATTCTTTCTATTTTACAATTATTA
AATTGTGTACACTTTCATTACTTTTAAAAATGTAGAAATTTCTTCATGAACATAACTCTGCTGAATGTAAAGAAA
ATTTTTTTTCAAAAATGCTGTTAATGTATACTACTGGTGGTTGATTGGTTTTATTTTATGTAGCTTGACAATTCA
GTGACTTAATATCTATTCCATTTGTATTGTACATAAAATTTCTAGAAATACACTTTTTTCCAAAGTGTAAGTTT
GTGAATAGATTTTAGCATGATGAACTGTCTAATGGTGAATGTTCAATCTGTGTAAGAAAACAACTAAATGTA
GTTGTCACACTAAAATTTAATTGGATATTGATGAAATCATTGGCCTGGCAAATAAAACATGTTGAATTCCCC

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FIGURE 2313

CTTTCTGTCTTGATGACCTGTCTAGTGCTATAAATGAACACCTTTCTGCCCCGTGGACGCCGCCGAAGAAGCATCG
TTAAAGTCTCTCTTCTCCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCAAACAGCTGAGGAAGCTCT
TCATTGGAGGGTTGAGCTTTGAAACAACCAATGAGAGTCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCATGG
ACTGTGTGGTAATGAGAGATCCAAACACCAAGTGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGG
AGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAA
GAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACCA
AAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCA
GTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACCATGACTCTGTGGATAAGATTGTCATTTCAGAAAT
ACCATACTGTGAATGGCCACATCTGTGAAGTTAGGAAAGCCCTGTCAAAGCAAGAGATGGCGAGTACTTCATCCA
GCCAAAGAGGTCAAAGTGGTTCTGGAACTTTAGTGGTGGTCGTGGAGGTGGTTTCAGTGGGAATGACAACTTTG
GTCATGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGTGGCAGCCGTGGTGCTGGTGGATATGGTGGCAGTGGGG
ATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTGGCAATTACA
ACAATCAGTCTTCAAATTTTAGACCCATGAAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCCATGGCGGTG
GAGGCAATACTTTGCAAACCAAGGTGGCTATGGCAGTTCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGAT
TTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAAGAGATT
TGTGAACCTCAGCCAAGCACAGTGGTGGCAGGGCCTAGCTGCTACAAAGAAGACGTGTTTTAGACACATACTCATG
TGTATGGGCAAAAACTCGAGGACTGTATTTGTGACTAGCTGTATAACAGGTATTTTAAATTTCTATTCTGCGGA
AAGTGTAAGCATTCCAACAAAGGGTTTTAATGTAGTTTTTTTTTGCACCCATGCTGTTGATTATTAAATGTAA
TAGTCTGATTGTGACACTGAATAAATGTCTTTTTT

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FIGURE 2314

MSKSESPKEPKQLRKLFIGGLSFETTNESLRSHFEQWGTLMDCVVMRDPNTKCSRGFVVTYATVEEVDAAMNAR
PHKVDGRVVESKRAVSREDSQRPGAHLTVKKIFVGGIKEDTKEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKIVIQKYHTVNGHICEVRKALSKQEMASTSSSQRGSGSGNFVVEATMILAITTISLQILD

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FIGURE 2315

CCTTTCTGCCC GTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCTCCCTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCAAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCAATGAGAGTCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCATGGACTGTGTGGTAATGAGAGATCCAAACACCAAGTGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAA
AAAGATATTTGTTGGTGGCATTAAAGAAGACACCAAAGAACATCACCTAAGAGATTATTTGAACAGTATGTGGA
AGCAATTTTGGAGGTGGTGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTAGACCCATG
AAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCCCTATGGCGGTGGAGGCAATACTTTGCAAAACCAAGGTGGC
TATGGCAGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAG
AGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAAGAGATTGTGAACTCAGCCAAGCACAGTGGTGGCA
GGGCCTAGCTG

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FIGURE 2316

AAGTCTCTCTTCTCCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCAAACAGCTGAGGAAGCTCTTCA
TTGGAGGGTTGAGCTTTGAAACAACCAATGAGAGTCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCATGGACT
GTGTGGTAATGAGAGATCCAAACACCAAGTGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGG
TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAAGAG
AAGATTCTCAAAGACCAGGTGCCCACTTAACCTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACCAAAG
AACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACCATGACTCTGTGGATAAGATTGTCATTGAGAAATACC
ATACTGTGAATGGCCACATCTGTGAAGTTAGGAAAGCCCTGTCAAAGCAAGAGATGGCGAGTACTTCATCCAGCC
AAAGAGGTCAAAGTGGTTCTGGAACTTTAGTGGTGGTCGTGGAGGTGGTTTCAGTGGGAATGACAACTTTGGTC
ATGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGATGGCTATAATGGATTGGTAATGATGGAAGCAATTTTGGGA
GGTGGTGGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTAGACCCATGAAGGGAGGAAAT
TTTGGAGGCAGAAGCTCTGGCCCCATGGCGGTGGAGGCAATACTTTGCAAA

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FIGURE 2317

CCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCAAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAG
CTTTGAAACAACCAATGAGAGTCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCATGGACTGTGTGGTAATGAG
AGATCCAAACACCAAGTGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTAT
GAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAAGAGAAGATTCTCAAAG
ACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACCAAAGAACATCACCTAAG
AGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGG
CTTTGCCTTTGTAACCTTTGACGACCATGACTCGGTGGCTTTGGTGGCAGCCGTGGTGCTGGTGGATATGGTGGC
AGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTGGC
AATTACAACAATCAGTCTTCAAATTTTAGACCCATGAAGGG

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FIGURE 2318

ATGCCAACTATGTCACCTTTACGGATACCAAACAATTGATTAGTGATACTCCAAATAATCAAGTTCCAATGAAC
CGTGCCAGCATGGCTTTTGATGCCAAATGTCTGACTGGATGCAGATTTGATGATGCCATTGTCCAGTTTGATATG
ACATATTGGCCTTTCACGGTGGTAAATGATGCTGGCAGGCCCAAGGTCCAAGTAGAGTATGAGAGAGACAAAAAG
CTGCTACCCATAGGAGGTGTCTTCTATGGTTCTGACAAAGATGAAGGAAATTGCAAAAGTCTACCTTGGGAAGAC
TGTTACCAATGCTGTGGTCACAGTGCCAGCTTACTTGAATGA

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FIGURE 2319A

GTAACAACCGTCACCCTGGGTCCCGACTGCCACCTCCTCCTCCTCCCCCTCCCCCAACAACAACAACAAC
AACTCCAAGCACACCGGCCATAAGAGTGC GTGTGTCCCCAACATGACCGAACGAAGAAGGGACGAGCTCTCTGAA
GAGATCAACAACCTTAAGAGAGAAGGTTCATGAAGCAGTCGGAGGAGAACAACAACCTGCAGAGCCAGGTGCAGAAG
CTCAGAGAGGAGAACACCAACCTTTCGAGAGCAAGTGGAAACCCACCCCTGAGGATGAGGATGATGACATCGAGCTC
CGCGGTGCTGCAGCAGCTGCTGCCCCACCCCTCCAATAGAGGAAGAGTGCCCAAGACCTCCCAGAGAAGTTC
GATGGCAACCCAGACATGCTGGCTCCTTTTCATGGCCAGTGCCAGATCTTCATGGAAAAGAGCACCAGGGATTTC
TCAGTTGATCGTGTCCGTGTCTGCTTCGTGACAAGCATGATGACCGGCCGTGCTGCCCCGTGGGCCCTCAGCAAAG
CTGGAGCGCTCCCACTACCTGATGCACAACCTACCCAGCTTTCATGATGGAAATGAAGCATGTCTTTGAAGACCTC
CAGAGGCGAGAGGTTGCCAAACGCAAGATCAGACGCCTGCGCAAGGCATGGGGTCTGTATCGACTACTCCAAT
GCTTTCCAGATGATTGCCAGGACCTGGATTGGAACGAGCCTGCGCTGATTGACCAGTACCACGAGGGCCTCAGC
GACCACATTCAGGAGGAGCTCTCCACCTCGAGGTGCGCAAGTCGCTGTCTGCTCTGATTGGGCAGTGCATTAC
ATTGAGAGAAGGCTGGCCAGGGCTGCTGCAGCTCGCAAGCCAGCTCGCCACCCGGGCGCTGGTGTGCTTCAC
ATTGCAAGCCACCACAGGTAGATCCAACCGAGCCGGTGGGAGGTGCCCGCATGCGCCTGACGCGAGAAGAAAA
GAAAGACGCGAGAAAGCTGAACCTGTGCCTCTACTGTGGAACAGGAGGTCACTACGCTGACAATTGCTCTGCCAAG
GCCTCAAAGTCTTCGCCGCGGGGAACTCCCCGGCCCCGCTGTAGAGGGACCTTCAGCGACCGGGCCAGAAATAA
TAAGGTCCCCACAAGATGATGCCTCATCTCCACACTTGCAAGTGATGCTCCAGATTCATCTTCGGGCGAGACACA
CCCTGTTTCGTCCGAGCCATGATCGATTCTGGTGCTTCTGGCAACTTCATTGATCACGAATATGTTGCTCAAAATG
GAATTCCTCTAAGAATCAAGGACTGGCCAATACTTGTGGAAGCAATTGATGGGCGCCCCATAGCATCGGGCCAG
TTGTCCACGAAACTCACGACCTGATAGTTGACCTGGGAGATCACCGAGAGGTGCTGTCATTGATGTGACTCAGT
CTCCATTCTTCCCTGTCTGCTCCTAGGGGTTTCGTGGCTGAGCACACATGATCCCAATATCACATGGAGCACTCGAT
CTATCGTCTTTGATTCTGAATACTGCCGCTACCACTGCCGGATGTATTCTCCAATACCACCATCGCTCCCACCAC
CAGCACCACAACCGCCACTCTATTATCCAGTAGATGGATACAGAGTTTACCAACCAGTGAGGTATTACTATGTCC
AGAATGTGTACACTCCAGTAGATGAGCACGCTCTACCCAGATCACCGCCTGGTTGACCCTCACATAGAAATGATAC
CTGGAGCACACAGTATTCCAGTGACATGTGTATTCACTGTCCGAACCTGAAATGGCAGCTCTTCGAGATTTTG
TGGCAAGAAATGTAAAAGATGGGCTAATTACTCCAACGATTGCACCTAATGGAGCCCAAGTTCTCCAGGTGAAGA
GGGGGTGGAACTGCAAGTTTCTTATGATTGCCGAGCTCCAACAATTTTACTATCCAGAATCAGTATCCTCGCC
TATCTATTCCAAATTTAGAAGACCAAGCACACCTGGCAACGTACACTGAATTCGTACCTCAAATACCTGGATACC
AAACATACCCACATATGCCGCGTACCCGACCTACCCAGTAGGATTCGCTTACCAGTGAGGACGAGACGGAC
AAGGAAGATCACTATATGTACCTGTGATGATCACTTGAATCCCACTGGTACCGCCAGCCTCCGGTACCACAGT
ACCCGCCGCCACAGCCGCCGCTCCACCACCACCACCGCCGCCGCTCCATCTTACAGTACCCTGTAAATACCTG
TCATGTCCTTCAGGATCTCTGCCCTCAAATTTATCTGTTTCAGCTTCTCAATCAGTGACTGTGTGCTAAATTT
TAGGCTACTGTATCTTCAGGCCACCTGAGGCACATCCTCTCTGAAACGGCTATGGAAGGTTAGGGCCACTCTGGA
CTGGCACACATCCTAAAGCACCAAAAGACCTTCAACATTTTCTGAGAGCAACAGAGTATTGCCAATAAATGATC
TCTCATTTTTCCACCTTGACTGCCAATCTAACTAAAATAATTAATAAGTTTACTTTCCAGCCAGTCTCGGAAGTC
TGGGTTTTACCTGCCAAAACCTCCATCACCATCTAAATTATAGGCTGCCAAATTTGCTGTTTAACATTTACAGAG
AAGCTGATACAAACGCAGGAAATGCTGATTTCTTTATGGAGGGGAGACGAGGAGGAGGAGGACATGACTTTTCT
TGCGGTTTCGGTACCCTCTTTTTAAATCACTGGAGGACTGAGGCCTTATTAAGGAAGCCAAAATTATCGGTGCAG
TGTGGAAGGCTTCCGTGATCCTCTCGCTGCACCTTAGAACTTCACCGTCTTCAAACCTCCATTTCCATGGTTC
TGTTAATTCTCAAGGAGCAGCAACTCGACTGGTTCTCCAGGAGCAGGAAAAACCTTGTGACATGAAACATCTC
AGGCCTGAAAAGAAAGTGCTCTCTCAGATGGACTCTGTCATGTTAAGACTATGTCTTCACATCATGGTGCAATC
ACATGTACCCAATGACTCCGGCTTTGACACAACACCTTACCATCATCATGCCATGATGGCTTCCACAAAGCATT
AACCTGGTAACCAGAGATTACTGGTGGCTCCAGCGTTGTTAGATGTTTCATGAAATGTGACCACCTCTCAATCACC
TTTGAGGGCTAAAGAGTAGCATCAAAAGGACTCCAAAATCCCATACCCAACCTTTAAGAGATTTGTCTGGTA
CTTCAGAAAGAAATTTTCATGAGTGTCTTAATTGGCTGGAAAAGCACCAGCTGACGTTTTGGAAGAATCTATCCA
TGTGTCTGCCCTCATATGCATCTGGGCATTTTCATCTCAGTCCCCTCATTAGACTGTAGCATTAGGATGTGTGGA
GAGAGGAGAAATGATTTAGCACCCAGATTCACACTCCTATGCCTGGAAGGGGGACATCTTTGAAGAAGAGGAATT
AGGGCTGTGGACACTGTCTTGAGGATGTGGACTTCCTTAGTGAGCTCCACATTACTTGATGGTAACCACTTCAA
AGGATCAGAAATCCACGTAATGAAAAGGTCCCTCTAGAGGATGGAGCTGATGTGAAGCTGCCAATGGATGAAAAG

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FIGURE 2319B

CCTCAGAAAGCAACTCAAAGGACTCAAAGCAACGGACAACACAAGAGTTGTCTTCAGCCCAGTGACACCTCTGAT
GTCCCTGGAAGCTTTGTGCTAACCTGGGACTGCCTGACTTCCTTTAGCCTGGTCCCTTGCTACTACCTTGAAC
GTTTTATCTAACCTCTCTTTTTCTGTTTAATTCTTTGCTACTGCCATTGACCCTGCTGCAGGATTTGTGTCA
TCCTGCCTGGTTGCTGAGACTCCATTTTCTGCCACACACAGAGATGTAAGAGGCAGGCTTTAATTGCCAAAGCA
CAGTTTGAGCAGTAGAAAAACAACATGGTGTATATCTCAAATTGCCTGACATGAAGAGGAGCTAACGGTGAAGTT
TCACTTTTATCAGCATCATCTTTCACATGTTCAATTATCATCCGCTCTTATTCTTGCAATGTTAAACACTTAAAA
TTTTAGTATAATTTTTAGTGTGTTTTGAAGTGGTGACTAGGCTTTCAAAAACCTTCCATTGAATTACAAAGCACT
ATCCAGTTCTTATTGTTAAACTAAGTAAAAATGATAAGTAACATAGTGTAAAAATATTCTTTACTGTGAACCTCT
TACAATGCTGTGAATGAGAGGCTCCTCAGAAGTGGAGCATTGTATAATAATTCATCCTGTTCACTTCAATTTT
AACATCATATATAATTTCAATTCTATCAATTGGGCCTTTAAAAATCATATAAAAGGATATAAAATTTGAAAAGAG
AAACCTAATTGGCTATTTAATCCAAAACAACCTTTTTTTTTTCTTCAATGGAATCAGAAAGCTTGTCATCACTC
ATGTGTTTTAGAGTAATTACTTTTTAAAAATGGTGCATTGTGCTTCTGAACATTTTGAAGAGTCACTTCTGTTTA
CCTCAAGTATCAATTCATCCTCCATACATTGAATTCAGTTGTTTTTGTCAAATTTACAGTTGTCAATTGATC
TTCAAGCTGCAGGGTGCTAGAAATGGGCCGTTGTCTGTAGCCCTGGCATGTGCACACGGACATTTGCCACCACT
GCAAGCAAAAGTCTGGAGAAGTTCACCAACGACAAGAACGATTAGGGAAAATATGCTGCTGTGGGTAAACAAC
AGAAAGTCCCTGATCCACATTTGGCTGTTTACTAAAGCTTGTGATTAACCTTTTGGCAGTGTGTACTATGCTCTA
TTGCTATATATGCTATCTATAAATGTAGATGTTAAGGATAAGTAATCTAAATTTATTATTCTATAGTTTGAAG
TTTGGTTAAGTTTCTTTCACTCAATTGATTTATTTTGTGTTAATCAAATTTATGTTAATTGGATCCTTTAAAT
TTTTTTTGGCATTTCCTCAACAAAAATGGCTTTATTCATAAGAAAGGAAAAAATCAATGGAATTTGATATCTAAA
GAAGTTAGAAAGGGAGCAAAATAAAAAACATAAAGGAGATAGATGAATTAGTAAGCAAATCAGTAGTCGAGTTTT
TCAAAC TGGCAAAATTAATTAATTGACTTTTAGCCCAAATTTACATTGTTAATTAAATCAAGAAGGAAGAAGATC
TAAGAGCTCCCATTTGATAGGCAAGCCTAGAGAGAACTAGCTAAATTTATCATGCTAGGATATTGAAACACAGAAA
GTTTACATACATTTATGAAGGGTCAATTTAGTTTGGACAGTGAGGTATTTGTCTTAGTGGAAGGAGGAGAATTA
GTCTGATCAAATCGTGAAGTAATACAGTGAACCTTGCAGGTGCACAAAATAAGAGGGCCACATCTATATGGTGCAG
TCTGGAATCTGTTTAAAGTTTGTAGGTACCTCTTGGACTTCTGAATTGATCCAGTTGTCTATCCACCACAGACATC
TCACATCAGATACAGACAGTTCCAAGATTGACAACAGAGAACCACTGCTGGAAAGACCTGGGCAGAAATGGAGA
GCCCTGCGGGAACCATGCTACATTTTATCTAAAGAGAGAATGCACATCTGATGAGACTGAAAGTTCTTTGTGTG
TTTAGATTGTAGAATGGTATTGAATTGGTCTGTGGAAAATTGCATTGCTTTTATTCTTTGTGTAAATCAAGTTTA
AGTAATAGGGGATATATAATCATAAGCATTTTAGGGTGGGAGGGACTATTAAGTAATTTAAGTGGGTGGGGTTA
TTTAGAATGTTAGAATAATATTATGTATTAGATATCGCTATAAGTGGACATGCGTACTTACTTGTAAACCTTTAC
CCTATAATTGCTATCCTTAAAGATTTCAAATAAACTCGGAGGGAAGTGCAGGGAGACCAACTTATTTAGAGCGAA
TTGGACATGGATAAAAACCCAGTGGGAGAAAGTTCAAAGGTGATTAGATTAATAATTTAATAGAGGATGAGTGA
CCTCTGATAAATTACTGCTAGAATGAACCTTGTCATGATGGATGGTAAATTTTCATGGAAGTTATAAAAGTGATA
AATAAAAACCCCTTGCTTTTACCCCTGTCTAGTAGCCCTCCTCTACCACTGAACCCATTGCCCTACCCCTCCTT
CTAACTTTATTGCTGTATTCTCTTCACTCTATATTTCTCTCTATTGTCTAATATTGCATTGCTGTTACAATAAAA
ATTCATAAAGATTTAGTGTTAAGTGC

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FIGURE 2320

MTERRRDELSEEINNLREKVMKQSEENNNLQSQVQKLTEENTTLREQVEPTPEDEDDDIELRGAAAAAPPPPIE
EECPEDLPEKFDGNPDMLAPFMAQCQIFMEKSTRDFSVDVRVCFVTSMMTGRAARWASAKLERSHYLMHNYPAF
MEMKHVFEDPQRREVAKRKIRRLRQGMGSVIDYSNAFQMIQDLWNEPALIDQYHEGLSDHIQEELSHLEVAK
SLSALIGQCIHIERRLARAAAARKPRSPPRALVLPHIASHHQVDPTEPVGGARMRLTQEEKERRRKLNLCLYCGT
GGHYADNCPAKASKSSPAGNSPAPL

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FIGURE 2321A

AGCACCACGGCAGCAGGAGGTTTCGGCTAAGTTGGAGGTAAGTGGCCACGACTGCATGCCCCGCGCCCGCCAGGTGA
TACCTCCGCGCGGTGACCCAGGGGCTCTGCGACACAAGGAGTCTGCATGTCTAAGTGCTAGACATGCTCAGCTTGTG
TGGATACGCGGACTTTTGTGCTGCTTGCACTAACCTTATGCCTAGCAACATGCCAATCTTTACAAGAGGAACTG
TAAGAAAGGGCCAGCCGAGATAGAGGACCACGTGGAGAAAGGGGTCCACCAGGCCCCCAGGCAGAGATGGTG
AAGATGGTCCCACAGGCCCTCCTGGTCCACCTGGTCCCTCGGCCCTGGTCTCGGTGGGAACCTTTGCTGCTC
AGTATGATGGAAGGAGTTGGACTTGGCCCTGGACCAATGGGCTTAATGGGACCTAGAGGCCACCTGGTGCAG
CTGGAGCCCCAGGCCCTCAAGGTTTCCAAGGACCTGCTGGTGAGCCTGGTGAACCTGGTCAAACCTGGTCTGCAG
GTGCTCGTGGTCCAGCTGGCCCTCCTGGCAAGGCTGGTGAAGATGGTCACCTGGAAAACCCGGACGACCTGGTG
AGAGAGGAGTTGTTGGACCACAGGGTGGTCTGGTGGTTCCCTGGAACTCCTGGACTTCTGGCTTCAAAGGCATTA
GGGGACACAATGGTCTGGATGGATTGAAGGGACAGCCCGGTGCTCCTGGTGTGAAGGGTGAACCTGGTGGCCCTG
GTGAAAATGGAACCTCCAGGTCAAACAGGAGCCCGTGGGCTTCTGGTGAGAGAGGACGTGTTGGTGCCCTGGCC
CAGCTGGTGCCCGTGGCAGTGATGGAAGTGGGGTCCCGTGGGCTCCTGCTGGTCCCATTGGGTCTGCTGGCCCTC
CAGGCTTCCCAGGTGCCCTGGCCCCAAGGGTGAATTTGGAGCTATTGGTAACGCTGGTCTGCTGGTCCCAGCCG
GTCCCCGTGGTGAAGTGGGTCTTCCAGGCCCTCCTCGGCCCGTGGACCTCCTGGTAATCCTGGAGCAAACGGCC
TTACTGGTGCCAAGGGTGTGCTGGCCCTCCCAGGCTTGGTGGGGCTCCCGGCTCCTGGACCCCGCGGTATTC
CTGGCCCTGTTGGTGTGCGCGGTGCTACTGGTGCCAGAGGACTTGTGGTGAGCCTGGTCCAGCTGGCTCCAAAG
GAGAGAGCGGTAAACAAGGGTGAGCCCGGTGCTGCTGGGCCCAAGGTCTCCTGGTCCCAGTGGTGAAGAAGGAA
AGAGAGGCCCTAATGGGGAAGCTGGATCTGCCGCCCCCTCCAGGACCTCCTGGGCTGAGAGGTAGTCTGGTTCTC
GTGGTCTTCTGGAGCTGATGGCAGAGCTGGCGTATGGGCCCTCCTGGTAGTCGTGGTGCAAGTGGCCCTGCTG
GAGTCCGAGGACCTAATGGAGATGCTGGTCCCGCTGGGGAGCCTGGTCTCATGGGACCCAGAGGTCTTCTGGTT
CCCCGTGGAATATCGGCCCGCTGGAAAAGAGGTCTGTGCGCCCTCCTGGCATCGACGGCAGGCTGGCCCAA
TTGGCCCCGTGGAGCAAGAGGAGAGCCTGGCAACATTGGATTCCCTGGACCCAAAGGCCCCACTGGTGACCCTG
GCAAAAACCGTGATAAAGGTGCTGCTGGTCTTGTGGTGTGCGGGGTGCTCCAGGTCTGATGGAACAATGGTG
CTCAGGGACCTCCTGGACCACAGGGTGTTCAGGTGGAAAAGGTGAACAGGGTCCCGCTGGTCTCCAGGCTTCC
AGGGTCTGCTGGCCCCCTCAGGTCCCGCTGGTGAAGTTGGCAAACCAGGAGAAAGGGTCTCCATGGTGAGTTTG
GTCTCCCTGGTCTGCTGGTCCAAGAGGGGAACGCGGTCCCCAGGTGAGAGTGGTGTGCGCGGTCTACTGGTC
CTATTGGAAGCCGAGGTCTTCTGGACCCCAAGGCTGATGGAAACAAGGGTGAACCTGGTGTGGTGTGGTG
TGGGCACTGCTGGTCCATCTGGTCTAGTGGACTCCAGGAGAGAGGGGTGCTGCTGGCATACTGGAGGCAAGG
GAGAAAAGGGTGAACCTGGTCTCAGAGGTGAATTTGGTAACCTGGCAGAGATGGTGTGCTGGTGTGCTGATGGT
CTGTAGGTGCCCCCTGGTCTGCTGGAGCCACAGGTGACCGGGCGAAGCTGGGGCTGCTGGTCTGCTGGTCTG
CTGGTCTCGGGGAAGCCCTGGTGAACGTGGCGAGGTGCGTCTGCTGGCCCCAACGATTTGCTGGTCCGGCTG
GTGCTGCTGGTCAACCGGGTGTAAAGGAGAAAGAGGAGGCAAGGGCTAAGGGTGAACAGCGTGTGTTGGTCT
CCACAGGCCCCGTGGAGCTGCTGGCCAGCTGGTCCAAATGGTCCCCCGGTCTGCTGGAAGTCTGCTGGTATG
GAGGCCCCCTGGTATGACTGGTTTCCCTGGTGTGCTGGACGGAAGGTGCTGGTGGTGGTGAACAGGTCCAGTTGGCC
GCCCTCCTGGTCCCCCTGGTCTGCTGGGAAAGAGGGCTTGGTGGTCTGCTGGTGGTGAACAGGTCCAGTTGGCC
GAACTGGAGAAGTAGGTGCAGTTGGTCCCCCTGGCTTCGCTGGTGAGAAGGGTCCCTCTGGAGAGGCTGGTACTG
CTGGACCTCCTGGCACTCCAGGTCTCAGGGTCTTCTGGTGTCTCCTGGTATTCTGGGTCTCCTGGCTCGAGAG
GTGAACGTGGTCTACCTGGTGTGCTGGTGTGCTGGGTGAACCTGGTCTCTGGCATTCGCCGCCCTCCTGGGG
CCCGTGGTCTCCTGGTGTGCTGGGTAGTCTGGAGTCAACCGGTGCTCCTGGTGAAGCTGGTCTGATGGCAACC
CTGGGAACGATGGTCCCCCAGGTGCGATGGTCAACCCGACACAAGGAGAGCGCGTTACCTGGCAATATTG
GTCCCGTTGGTGTGCTGACGGTGCACCTGGTCTCATGCCCCCGTGGGTCTGCTGGCAAACATGGAACCGTGGTG
AAACTGGTCTTCTGGTCTGTTGGTCTGCTGGTGTGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
GTGGCGATAAGGGAGAGCCCGGTGAAAAGGGGCCAGAGGTCTTCTGGCTTCAAGGGACACAATGGATTGCAAG
GTCTGCTGGTATCGCTGGTACCATGGTGATCAAGGTGCTCCTGGTCCGTGGGTCTGCTGGTCTAGGGGCC
CTGCTGGTCTTCTGGCCCTGCTGGAAAAGATGGTCCGACTGGACATCCTGGTACGGTTGGACCTGCTGGCATTC
GAGGCCCTCAGGGTACCAAGGCCCTGCTGGCCCCCTGGTCCCCCTGGCCCTCCTGGACCTCCAGGTGTAAGCG
GTGGTGGTTATGACTTTGGTTACGATGGAGACTTCTACAGGGCTGACGACCTCGCTCAGCACCTTCTCTCAGAC
CCAAGGACTATGAAGTTGATGCTACTCTGAAGTCTCTCAACAACCAGATTGAGACCCTTCTACTCCTGAAGGCT

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FIGURE 2321B

CTAGAAAGAACCCAGCTCGCACATGCCGTGACTTGAGACTCAGCCACCCAGAGTGGAGCAGTGGTTACTACTGGA
TTGACCCCAACCAAGGATGCACTATGGAAGCCATCAAAGTATACTGTGATTTCCCTACCGGCGAAACCTGTATCC
GGGCCCCAACCTGAAAACATCCCAGCCAAGAACTGGTATAGGAGCTCCAAGGACAAGAAACACGTCTGGCTAGGAG
AAACTATCAATGCTGGCAGCCAGTTTGAATATAATGTTGAAGGAGTGACTTCCAAGGAAATGGCTACCCAACCTG
CCTTCATGCGCCTGCTGGCCAACCTATGCCTCTCAGAACATCACCTACCACTGCAAGAACAGCATTGCATACATGG
ATGAGGAGACTGGCAACCTGAAAAAGGCTGTCATTCTACAGGGCTCTAATGATGTTGAACTTGTGCTGAGGGCA
ACAGCAGGTTCACTTACACTGTTCTTGTAGATGGCTGCTCTAAAAAGACAAATGAATGGGGAAAGACAATCATTG
AATACAAAACAAATAAGCCATCACGCCTGCCCTTCCTTGATATTGCACCTTTGGACATCGGTGGTGCTGACCATG
AATTCTTTGTGGACATTGGCCCAGTCTGTTTCAAATAAATGAACTCAATCTAAATTAAAAAGAAAGAAATTTGA
AAAACTTTCTCTTTGCCATTTCTTCTTCTTTTCAACTGAAAGCTGAATCCTTCCATTTCTTCTGCACATC
TACTTGCTTAAATTGTGGGCAAAAGAGAAAAAGAGGATTGATCAGAGCATTGTGCAATACAGTTTCATTAACCTC
CTTCCCCGCTCCCCCAAAAATTGAATTTTTTTTTCAACACTCTTACACCTGTTATGGAAAATGTCAACCTTTG
TAAGAAAACCAAAATAAAAATTGAAAAATAAAAACCATAAACATTTGCACCACTTGTGGCTTTTGAATATCTTCC
ACAGAGGGAAGTTTAAAACCCAACTTCCAAAGGTTTAACTACCTCAAAACACTTTCCCATGAGTGTGATCCAC
ATTGTTAGGTGCTGACCTAGACAGAGATGAACTGAGGTCCTTGTTTTGTTTTGTTTCATAATACAAAGGTGCTAAT
TAATAGTATTTTCAATACTTGAAGAATGTTGATGGTGCTAGAAGAATTTGAGAAGAAATACTCCTGTATTGAGTT
GTATCGTGTGGTGTATTTTAAAAAATTGATTTAGCATTCAATTTTCCATCTTATTCCCAATTAAAAGTATG
CAGATTATTTGCCCAAAGTTGTCCTCTTCTTCAGATTACAGATTGTTCTTTGCCAGTCTCATTTTCATCTTCTT
CCATGGTTCCACAGAAGCTTTGTTTCTTGGGCAAGCAGAAAAATTAAATTGTACCTATTTTGTATATGTGAGATG
TTTAAATAAATTGTGAAAAAATGAAATAAAGCATGTTTGGTTTCCAAAAGAACATAT

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FIGURE 2322

ATTTAACITTTTAATGCTTTTTCTACAATATGCTATAAATATAAGAAAAATTAAAATTCACTAACAGCAAGACTAC
ATACCCACCCAGGTCCCGCTCCCAAAGACACACATAGAGGGACATACACACAACATCCTAAAAATGACTTTGTGTA
GAGATAGGTCACTTGAATGTGTGTTGAAATGTTGTTGGTTTTTTTGGTTGGTTTGTGTTGTTGTTTTTTGTTAG
ACTGATAGGGAGCCCTCCCACTAAAGACACCCCTTGATACTGTTATTTCAAGGATGAACCTATTTATCTGGGACA
GACATCTTCAGAATGACACATGCCAAACAGTGGTTCTTATTAAATCAAAGGTTTCAGATATTATCAGATTCAGAAA
TAGTGATGCTTTGTGTATCTATTTTCTCTCTTTAAACAGAAAAAGACAAATGAATGGGGAAAGACAATCATTGA
ATACAAAACAAATAAGCCATCACGCCTGCCCTTCCTTGATATTGCACCTTTGGACATCGGTGGTGCTGACCATGA
ATTCTTTGTGGACATTGGCCCAGTCTGTTTCAAATAAATGAACTCAATCTAAATTAAAAAAGAAAGAAATTTGGA
GAAAAAGAAGGATTGATCAGAGCATTGTGCAATACAGTTTCATTAACCTTCCCCCGCTCCCCCAAAATTTGA
ATTTTTTTTTCAACACTCTTACACCTGTTATGGAAATGTCAACCTTTGTAAGAAAACCAAAATAAAATTTGAAA
AATAAAAACCATAAACATTTGCACCACTTGTGGCTTTTGAATATCTTCCACAGAGGGAAGTTTAAAACCCAACT
TCCAAAGGTTTAACTACCTCAAAACACTTTCCCATGAGTGTGATCCACATTGTTAGGTGCTGACCTAGACAGAG
ATGAACTGAGGTCTTTGTTTTGTTTGCATAATACAAAGGTGCTAATTAATAGTATTTAGATACTTGAAGAA
TGTTGATGGTGCTAGAAGAATTTGAGAAGAAATACTCTGTATTGAGTTGTATCGTGTGGTGTATTTTTTAA

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FIGURE 2323

CATCCGTGGACTTGGAGGCTGGCTCGGGCCCGCACCTCCCATCCCCAGCTGCCCCGAACCCCCAGTGA CTCTGGGA
TCCCCCGGAGAGCCCTCCCTCTCGGCAGGAGGGGGCTGACTCAGGGAGAAATGGCAGTTTAGGGCCTAGGGGGC
CACGTGACCTTCCCCCAGGAATGTGGTGACGTATCGGAGGCGTGGTCGTCCCCAAAATTAGGGAGGAAGAGGAA
AAAAAAAAGCCAGAAAAAGTTTTCTTTTCTGGAGTCCCAAACGAGGTGCGGGACGGAAGAGGGGGTGAAGGCCAG
AGGCTCGGGGCTTCAAGACCGCTGTCTGGAGTCCCCCTTTCCAGGCCATGTCTGGGGCCACCTGGCTGCCCCGA
AGCAGCCGGAGCCCGCCAGAGCCCCCTCAGGGGAGGGCGATCCCCCGCGGCACCCCGGGGCCACCACCGGCCACG
GAGCAGCACTCCAGCCCCACCCAGGGTCAATTTTTGCCCTTCCATCTGAGCAGTGTACAGGCCCCAGGGG
GACCGGAGGATCGGGGGCCGGCTGGGTGGGGTCCCATGGAGTACTCCAGCACACGCAGGGGCTCCCTGCAGACA
GGGGGGGCCCTTCGCCCTGGAAGCCTGGACGCCGAGATAGACTTGCTGAGCAGCACGCTGGCCGAGCTGAATGGGG
GTCGGGGTTCATGCGTACGGCGACCAGACCGACAGGCATATGAGCCCCGCCACCTCCTGCCTACCGCACGGGCT
CCCTGAAGCCAAATCCAGCCTCGCCGCTCCCAGCGTCTCCCTATGGGGGCCCCACTCCAGCCTCTTACACTACCG
CCAGCACCCCGGCTGGCCCCAGCCTTCCCCGTGCAAGTGAAGGTGGCACAGCCAGTGAGGGGCTGCGGGCCACCCA
GGCGGGGAGCCTCTCAGGCCTCTGGGCCCCCTCCCGGGCCCCCACTTTCCTCTCCAGGCCGAGGTGAAGTCTGGG
GGCCTGGCTATAGGAGCCAGAGAGAGCCAGGGCCAGGGGCCAAAGAGGAAGCTGCTGGGGTCTCTGGCCCTGCAG
GAAGAGGAAGAGGAGGCGAGCACGGGCCCCAGGTGCCCTGAGCCAGCCTCCAGAGGATGAGCTGGATAGGCTGA
CGAAGAAGCTGGTTCACGACATGAACCAACCGCCAGCGGGGAGTACTTTGGCCAGTGTGGTGGCTGCGGAGAAG
ATGTGGTTGGGGATGGGGCTGGGGTTGTGGCCCTTGATCGCGTCTTTACGTGGGCTGCTTTGTATGTTCTACAT
GCCGGGCCCAGCTTCGCGGCCAGCATTCTACGCCGTGGAGAGGAGGGCATATTGCGAGGGCTGCTACGTGGCCA
CCCTGGAGAAATGTGCCACGTGCTCCCAGCCCATCCTGGACCGGATCCTGCGGGCTATGGGGAAGGCCTACCACC
CTGGCTGCTTACCTGCGTGGTGTGTACCGCGGCCCTCGACGGCATCCCTTCACAGTGGATGCTACGAGCCAGA
TCCACTGCATTGAGGACTTTTACAGGAAGTTTGCCCCAAGATGCTCAGTGTGCGGTGGGGCCATAATGCCTGAGC
CAGGTCAGGAGGAGACTGTGAGAATTGTGCTCTGGATCGAAGTTTTACATTGGCTGTTACAAGTGCGAGGAGT
GTGGGCTGCTGCTCTCCTCTGAGGGCGAGTGTGAGGGCTGCTACCCGCTGGATGGGCACATCTTGTGCAAGGCCT
GCAGCGCCTGGCGCATCCAGGAGCTCTCAGCCACCGTCACCACTGACTGCTGAGTCTTCTAGAAAGTACCTGCTG
GGTTCTCAGTTCCAGTTCCCATCCTTTGATTGATCACTCTCCCTGACATCCACCTGTATGACTTTGTACACAAAT
GCTGTCTTCTCTTTCTCCAATCAAGAAATAATAATCCCTCGAGTTTACAAAACACTTCCAAGTCTGTTGTCTCAT
CTGATTCTCCAGTAGCCCATACAGGCCCAGTCATTGTT

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FIGURE 2324

MSGPTWLPEKQPEPARAPQGRAIPRGTPGPPPAHGAALQPHPRVNFCLPSEQCYQAPGGPEDRGPAWVGSHGVL
QHTQGLPADRGGLRPGSLDAEIDLLSSTLAELNGGRGHASRRPDRQAYEPPPPPAYRTGSLKPNPASPLPASPYG
GPTPASYTTASTPAGPAFPVQVKVAQPVRGCGPFRRGASQASGPLPGPHFPLPGRGEVWGPGYRSQREFGPGAKE
EAAGVSGPAGRGRGGEHGPQVPLSQPPEDELDRLTKKLVHDMNHPPSGEYFGQCGGCGEDVVGDGAGVVALDRVF
HVGCFVCSTCRAQLRGQHFYAVERRAYCEGCVATLEKCATCSQPILDRILRAMGKAYHPGCFTCVVCHRGDGI
PFTVDATSQIHCIEDFHRKFAPRCSVCGGAIMPEPGQEETVRIVALDRSFHIGCYKCEECGLLLSSEGECQGCYP
LDGHILCKACSAWRIQELSATVTDC

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FIGURE 2325

GTCTTTTCCGGCCCCCGTGCACTCTCCGCCGAGCGGAGCCCCCGGCTCGCGGGGATCGCCCCGAGCGCTGCG
TCCTGCGGGTCACCTAACCCATTTGTGGCTTCCTCTACCTGTGCTCAGCCATGGCCAGCGAGAGCTCACCTCTGC
TGGCCTACCGGCTCCTGGGGGAGGAGGGGGTTGCCCTCCCTGCCAATGGGGCCGGGGGTCCTGGAGGGGCGTCTG
CCCGGAAGCTGTCCACCTTCCTGGGTGTGGTGGTGCCCACTGTCTGTCCATGTTTACGATAGTTGTTTTCTGA
GGATTGGGTTCGTGGTGGGTTCATGCTGGGCTACTGCAGGCCCTGGCCATGCTGCTGGTTGGCTACTTCATCCTGG
CACTACCGCTCCTCTGTCTGTGCCATCGCCACCAATGGAGCCGTGCAGGGGGGCGGAGCCCTACTTCATGATCA
GCCGCACACTGGGGCCCGAGGTGGGGGGCAGCATTGGGCTCATGTTTACCTGGCTAACGTCTGTGGCTGTGCCG
TCTCCCTCCTGGGGCTGGTGGAGTCTGTGCTTGATGTCTTCGGGGCCGATGCCACAGGGGCCAGTGGGCTCCGGG
TCCTGCCCCAGGGCTACGGCTGGAACCTGCTGTATGGCTCCCTGCTGCTGGGCCCTGTGGGTGGGGTCTGCACCC
TGGGAGCCGGCCTCTATGCCCGGGCCTCATTCCCTCACATTCCTGCTGGTCTCTGGCTCCCTGGCCTCTGTGCTCA
TCAGTTTGTGGCTGTGGGGCCGAGGGACATCCGCTTGACTCCTAGGCCTGGCCCCAATGGCTCCTCCCTGCCGC
CCCGTTTGGCCACTTCACCGGCTTCAACAGCAGTACCCTGAAGGACAACCTGGGCGCTGGCTATGCTGAGGACT
ACACCACGGGAGCCGTGATGAATTTTGCCAGCGTCTTTGCTGTCTCTTTAACGGCTGTACAGGCATCATGGCTG
GGGCCAACATGTAGGGGAGCTGAAGGACCCAGCCGGGCGATCCCTCTGGGCACGATCGTCGCCGTGCGCTACA
CCTTCTTCGTCTATGCTCTGCTTTTCTTCTCTCCAGCTTCACTTGTGACAGGACCCTGCTGCAGGAAGACTATG
GGTCTTCCGCGCCATCAGCCTGTGGCCCCCACTGGTGTGATCGGAATCTATGCCACAGCGCTCTCAGCGTCCA
TGAGCTCGCTCATTGGTGCCCTCCCGCATCCTCCATGCCCTGGCCCGGGATGACCTCTTGGCGTGATCTTGGCAC
CGGCCAAGGTTGTGTCCCGAGGGGGAAACCCCTGGGCAGCTGTACTTTATTCTTGGGGCCTGGTGCAGCTGGTGC
TCCTGGCTGGGAAGCTGAACACACTGGCTGCTGTGGTCACTGTCTTCTACCTGGTGGCCTATGCTGCCGTGGACC
TGCTCTGCCTGAGCCTGGAGTGGGCCTCGGCCCCCACTTCGCCCCACCTTCAGCCTGTTCTCTGGCACACCT
GCCTGCTGGGGGTGGCCTCCTGCCTGCTCATGATGTTTCTCATCAGTCTTGGCGCGGCTGGTGGCTCCCTGCTCC
TCATGGGTCTGCTGGCTGCCCTGCTCACCAGCGAGGAGGCCCCAGTAGCTGGGGCTATGTACAGCAGGCCCTTGC
TTTTCCACCAAGGTGCGTAAGTATCTGCTTCGGCTGGACGTCCGGAAGGATCACGTGAAGTTCTGGCGGCCCCAGC
TGCTGCTCCTGGTGGGGAACCCCGGGGCGCCCTGCCTCTGCTGCGGTGGCCAACCAGCTTAAGAAGGGGGGGC
TGATGTGCTGGGCCACGTACCCCTGGGAGACCTCGACTCCCTGCCCTCGGACCCTGTACAGCCGAGTATGGGG
CATGGCTCAGCCTGGTGGACCGTGCCAGGTGAAGGCTTTTGTGGATCTAACCTCTCACCCCTCCGTGCCCAGG
GGGCTCAGCATCTGCTGCGAATCTCCGGCCTCGGTGGCATGAAGCCCAACACGTTGGTCTAGGTTTCTACGATG
ACGCTCCACCGCAGGACCATTTCCTGACGGACCGGCTTTCTCTGAGCCTGCAGACAGCAGGAGGGCAGTT
CCCCAGCTCTGAGCACCCTGTTCCCTCCTCCCGGGCTCCTGGGAGCCCCCGGGCCCTCAATCCCAGGACTATG
TGGCCACGGTGGCCGACGCCCTCAAGATGAACAAGAATGTGGTGTGCTGGCCCGGGCCAGCGGGCCTTGCCCCCTG
AGCGGCTGAGCCGGGGTCTGGGGGCACCTCTCAGCTGCACCATGTGGACGTGTGGCCCTCAACCTGCTGCGGC
CCCGGGGTGGGCCCGGCTATGTGGATGTCTGCGGCTCTTCTGCTGCAGATGGCAACCATCTTGGGCATGGTGC
CCGCTTGGCATAGCGCCCGGCTCCGATCTTCTGTGCTGGGGCCTCGGGAGGCGCCTGGGGCGGCCGAGGGGC
GGCTGCGGGCACTGCTGAGCCAACCTGAGGATCCGGCTGAGGTGCAGGAGGTGGTGTGGGGCGAGGGGGCCGGG
CTGGGGAACCCGAGGCGGAGGAGGAAGGGGACTTTGTGAACAGTGGGCGGGGAGACGCAGAGGCAGAGGCCCTGG
CACGCAGCGCCAACGCCCTGGTTCGGGCCCAGCAGGGGCGCGGCACAGAGGAGGGCCGGTGGGCCGAGGGTG
GGGATGCTGAGGGCCCCATCACAGCCCTCACCTTCTGTACTTGCTCGGCCGCCAGCCGATCCCGCCCGATACC
CCCGCTACCTGGCGCTACTGGAGACTCTAACCCGAGACCTGGGCCCCACGCTGCTGGTTCATGGGGTCACTCCAG
TCACCTGCACTGATCTGTGATGCCCTGCCTCCAGGGCTAGGTAGAGAGGGGCCAGGCAGGCGGCCTATCCTGAT
CCTTGGAGGAGGAGGAAGAGGAGGCCACTGTGGCCCGTGGCCCTGCCCTTGGGACGTGGAGCCCAGGGGAGGTTT
GAAGGGGATCCTGGGCTTGGGCATCAGCCCCACCTCCTTTGGCAGAGGGACCCAGCACACTAACTCTGGGTGGC
TGTCCCCACCGTGCAGGGGAGGAGTCCGCAGCCTCCCTTCACTGGTGCCTTGATGCTAGGGGCCAGGCCCTCCTC
TGTGACTCTGGGCTACCTCAGTTTCCCCATTTTGCCAGACTCACCGGCCACTGGGGTGGTGTATGTTTTCTGTT
TGTTTTATTTTCTAACTCTGCTGACCATGAATAAAGACCAAAACAC

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FIGURE 2326

GC GCGGGCAGGGCCGCACGAGCTGGCTGGCTGCTTGCACCCACATCCTTCTTTCTCTGGGACCTGGGGTCGCGGT
TACTTGGGCTGGCCGGCGAACCCTTGAGTGGCCTGGCGGGGAGCGGGCCTCGCGCGCCTGGAGGGCCCTGTGGAA
CGAAGAGAGGCACACAGCATGGCAGAAAACCGAGAGCCCCGCGGTGCTGTGGAGGCTGAACTGGATCCAGTGGAA
TACACCCCTTAGGAAAAGGCTTCCCAGCCGCTTGCCCCGAGACCCAATGACATTTATGTCAACATGAAGACGGAC
TTTAAGGCCCAGCTGGCCCGCTGCCAGAAGCTGCTGGACGGAGGGGCCCGGGGTGAGAACGCGTGCTCTGAGATC
TACATTACGGCTTGGGCCTGGCCATCAACCACGCCATCAACATCGCGCTGCAGCTGCAGGCGGGCAGCTTCGGG
TCCTTGCAGGTGGCTGCCAATACCTCCACCGTGGAGCTTGTTGATGAGCTGGAGCCAGAGACCGACACACGGGAG
CCACTGACTCGGATCCGCAACAACCTCAGCCATCCACATCCGAGTCTTCAGGGTCACACCCAAGTAATTGAAAAGA
CACTCCTCCACTTATCCCCTCCGTGATATGGCTCTTCGCATGCTGAGTACTGGACCTCGGACCAGAGCCATGTAA
GAAAAGGCCTGTTCCTTGAAGCCCCAAAGGACTCTGCATTGAGGGTGGGGGTAAATTGTCTCTTGGTGGCCCAGTT
AGTGGGCCTTCCTGAGTGTGTGTATGCGGTCTGTAACATTGCCATATAAATAAAAAATCCTGTTGCACTAGTGT
CCTGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2327

MAENREPRGAVEAELDPVEYTLRKRLPSRLPRRPNDIYVMKTDFAQLARCQKLLDGGARGQNACSEIYIHGLG
LAINHAINIALQLQAGSFGSLQVAANTSTVELVDELEPETDTREPLTRIRNNSAIHIRVFRVTPK

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FIGURE 2328

GGAGGAAGACAGCGCCGCCCGCGCACCGCCAGCGACCTCCGCCGCAGAGTCCCACCGCCACAGGCCTCGGGCCAG
CGGCCAGGAGCTGCCTCCCCAGCCCCCGTCCCGCGGCCCCAGCCGCCCCAACCTGCCCCACGGGCCCGGCG
CCATGAGTGAGCTGGAGCAACTGAGACAGGAGGCGGAGCAGCTCCGGAACCAGATCCGGGATGCCCCAAAAGCAT
GTGGGGACTCAACACTGACCCAGATCAGAGCTGGGCTGGACCCAGTGGGGAGAATCCAGATGAGGACCCGGAGGA
CCCTCCGTGGGCACCTGGCAAAGATCTATGCCATGCACTGGGGGACCGACTCAAGGCTGCTGGTCAGCGCCTCCC
AGGATGGGAAGCTCATCATCTGGGACAGCTACACCACCAACAAGGTCCACGCCATCCCGCTGCGCTCCTCCTGGG
TAATGACCTGTGCCTACGCGCCCTCAGGGAACCTTTGTGGCTGTGGGGGGTTGGACAACATCTGCTCCATCTACA
GCCTCAAGACCCGCGAGGGCAACGTCAGGGTCAGCCGGGAGCTGCCTGGCCACACTGGGTACCTGTGCTGTTGCC
GCTTCCTGGATGACAACCAATCATCACCAGCTCTGGGGATACCACTGTGCCCTGTGGGACATTGAGACAGGCC
AGCAGACAGTGGGTTTTGCTGGACACAGTGGGGATGTGATGTCCCTGTCCCTGGCCCCCGATGGCCGCACGTTTG
TGTCAGGCGCCTGTGATGCCTCTATCAAGCTGTGGGACGTGCGGGATTCCATGTGCCGACAGACCTTCATCGGCC
ATGAATCCGACATCAATGCAGTGGCTTTCTTCCCCAACGGCTACGCCTTCACCACCGGCTCTGACGACGCCACGT
GCCGCCTCTTCGACCTGCGGGCCGATCAGGAGCTCCTCATGTACTCCCATGACAACATCATCTGTGGCATCACCT
CTGTTGCCCTTCTCGCGCAGCGGACGGCTGCTGCTCGCTGGCTACGACGACTTCAACTGCAACATCTGGGATGCCA
TGAAGGGCGACCGTGCAGGAGTCTCGCTGGCCACGACAACCGCGTGAGCTGCCTCGGGGTCACCGACGATGGCA
TGGCTGTGGCCACGGGCTCCTGGGACTCCTTCCTCAAGATCTGGAATAATGGCCCCACCCCACTGGGCCAGG
CCAGGAGGGGCCCTGCCCATGCCCACACTACAGGCCAGGGCTGCGGGGCTGGCGCAATCCAGCCCCCTTCCCCG
GGCCACGGGGCCTTGGGTCCCTGCCCTCCCACCCAGGTTTGGTTCCCTCCCGGGGCCCCCACTGTGGAGATAAGAA
GGGGATGGAATGGGGGAAGAGGAGGAGCAGGAGGCCCTCATCCTTCTGCTGCCCTGGGGTTGGGGCCTCACCCT
CTGGAGGGCCGGAGGCAGGAGGTGGAAACCCAGGGGCTGGCTTTTTTAAACTGGTTTTATTTTAATTTTATT
ATATTTTCAGTTTTTCCATAAAGGAGCCAATTCCAACCTCTGT

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FIGURE 2329

ATCCTGCTGCTGCCGCCACCGCTGCTGCTGCTCTGCAAAATTCAGCTGCTGCCTCTGTCTTGAGGACCCCAGCGC
CTTTCCCCGGGGGCCATGCTGCCTGCAGCCACAGCCTCCCTCCTGGGGCCCCCTCCTCACTGCCTGCGCCCTGCTG
CCTTTTGCCCAGGGCCAGACCCCCAACTACACCAGACCCGTGTTCTGTGCGGAGGGGATGTGAAGGGGGAATCA
GGTTACGTGGCAAGTGAGGGGTTCCCCAACCTCTACCCCCCTAATAAGGAGTGCATCTGGACCATAACGGTCCCC
GAGGGCCAGACTGTGTCCCTCTCATTCCGAGTCTTCGACCTGGAGCTGCACCCCGCCTGCCGCTACGATGCTCTG
GAGGTCTTCGCTGGGTCTGGGACTTCCGGCCAGCGGCTCGGACGCTTTTGTGGGACCTTCCGGCCTGCGCCCCTA
GTCGCCCCCGGCAACCAGGTGACCTGAGGATGACGACGGATGAGGGCACAGGAGGACGAGGCTTCCTGCTCTGG
TACAGCGGGCGGGCCACCTCGGGCACTGAGCACCAATTTTGCGGGGGGCGGCTGGAGAAGGCCAGGGAACCCTG
ACCACGCCCAACTGGCCCCGAGTCCGATTACCCCCGGGCATCAGCTGTTCTTGGCACATCATCGCGCCCCCGGAC
CAGGTTCATCGCGCTGACCTTCGAGAAGTTTGACCTGGAGCCGGACACCTACTGCCGCTATGACTCGGTACGCGTG
TTCAACGGAGCCGTGAGCGACGACTCCCGGAGGCTGGGGAAGTTCTGCGGCGACGCGAGTCCCGGGCTCCATCTCC
TCCGAAGGGAATGAAGTCCCTCGTCCAGTTCGTCTCAGATCTCAGTGTACCGCTGATGGCTTCTCAGCCTCCTAC
AAGACCCTGCCGCGGGGCACTGCCAAAGAAGGGCAAGGGCCCCGGCCCCAAACGGGGAACTGAGCCTAAAGTCAAG
CTGCCCCCAAGTCCCAACCTCCGGAGAAAACAGAGGAATCTCCTTCAGCCCCCTGATGCACCCACCTGCCCAAAG
CAGTGCCGCGGACAGGCACCTTGCAGAGCAACTTCTGTGCCAGCAGCCTTGTTGGTGACTGCGACAGTGAAGTCC
ATGGTTCGGGAGCCAGGGGAGGGCCTTGCCGTGACTGTGAGTCTTATTGGTGCTTATAAACTGGAGGACTGGAC
CTGCCCTTCTCACCCACTGGTGCTCCCTGAAGTTTTACGTGCCTTGCAAGCAGTGCCCCCATGAAGAAAGGA
GTCAGTTATCTGCTGATGGGCCAGGTAGAAGAGAACAGAGGCCCGTCCTTCCTCCAGAGAGCTTTGTGGTTCTC
CACCGGCCCAACCAGGACCAGATCCTCACCAACCTAAGCAAGAGGAAGTGCCCTCTCAACCTGTGCGGGCTGCT
GCGTCCCAGGACTTGAGACGCAGGCCAGCCCCGGCCCCCTAGCCCTCAGGCCTTCTTTCTTATCCAAATAAATGTTT
CTTAATGA

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FIGURE 2330

MLPAATASLLGPLLTAALLPFAQGQTPNYTRPVFLCGGDVKGESGYVASEGFNLYPPNKECIWTITVPEGQTV
SLSFRVFDLELHPACRYDALEVFAGSGTSGQRLGRFCGTFRPAPLVAPGNQVTLRMTTDEGTGGRGFLWYSGRA
TSGTEHQFCGGRLEKAQGTLTTPNWPESDYPPGISCSWHIIAPPDQVIALTFEKFDLEPDYCRYDSVSVFNNAV
SDDSRRLGKFCGDAVPGSISSEGNELLVQFVSDLSVTADGFSASYKTLPRGTAKGQGPGRGTPEPKVKLPKPS
QPPEKTEESPSAPDAPTCPKQCRRTGTLQSNFCASSLVVTATVKSMVREPGEGLAVTVSLIGAYKTGGLDLPSPP
TGASLKFYVPCKQCPPMKKGVSYLLMGQVEENRGPVLPPESFVVLHRPNQDQILTNLKSKKCPSPQVRAAASQD

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FIGURE 2331

GGAGAGGCAGAGACCCAGGGGAGCCGAGGAGCGGAGACACGGACCCAGCAGGGTCACGCGGGAGGAGACTCGGGA
CACCCTACTCGCTGGCTGCCACCGGGAGCAGAGGGGGGCTCGGCCGCCCCCTCCCACATCAGTCTCCAGACCCTTG
GGGCTTCAGAGGCCGCTCCTAGGCTCCTCGGAGGAGCGCGGGTTTCTTCTTTTCCGGAGAGCAAACCTTTCTCTCG
GAGATGCCTGGCAGGATGAGCCGCGGCCCGGAGAGGACGGGACAGCCTCTGATCGCCGCTGCGTGCCCCGCC
ACTGCCCATGGCCAGGAGGCCCCAGGGAACGGACAGCCCGACCTCTTAGGCGCCGGGACCCTCAGGCTCAGATCA
GTGGCCGAGGCCCCAGAGTTTGCAAACCTCAGCTCTGGAGTTCAGCAGCAACAGCAGCAGGAAAAACCTGCCCCTG
CTCCCCCTCCCGCCACCTCCCTCTCTCTTCTCTCCCTCAGCCAGCAGGCACCCCCGGTTCCCGCCAGGCCCTC
CTGCCATGTGCGGACCCAGACGTCCCCAGGGGCTCGGATGTCCCCGCCATGTGGCCCCCTTGTTCCAGGGGTGCCT
GAGCCCCCTCAAGGAGCCCCAACCCACCCCAACCTTGGCCAGCCCTGAGCCCCAGGGACCATGAGCGGGGGCA
AGAAGAAGAGTAGTTTCCAAATCACCAGCGTCACCACGGACTATGAGGGCCCTGGGAGCCCAGGGGCTTCGGATC
CCCCCTACCCACAGCCCCAACCGGGCCCCCGCCCCGCCTGCCAATGGGGAGCCCAGCCCCGATCCGGGGGGCA
AGGGCACCCCCCGGAATGGCTCCCCACCACCTGGGGCCCCCTTCTCCCGTTTCCGGGTGGTGAAGCTGCCCCACG
GCCTGGGAGAGCCTTATCGCCGCGGTGCGTGGACGTGTGTGGATGTTTATGAGCGAGACCTGGAGCCCCACAGCT
TCGGCGGACTCCTGGAGGGAATTCGAGGGGCTCAGGGGGCGCCGGGGGCGAGATCTTTGGATTCCAGGTTGGAGC
TGGCCAGCCTCGGCCTGGGCGCCCCACCCACCGTCAGGCCTGTCTCAGGGCCCCACCTCCTGGCTCCGTCCAC
CCCCACCTCTCCTGGACCTCAGGCCGCTCCTTCACTGGGGGACTGGGCCAGCTGGTGGTGCCAGCAAAGCCA
AGGCAGAGAAACCCCCACTGTGCGCCTCCTCAGCCAGCAGCGCCCCCAGAGCCTGAGACCGGTGAGAGTGCGG
GCACATCCCGGGCTGCCACGCCCCCTGCCCTCTCTGAGGGTGGAAGCGGAGGCTGGGGGCTCAGGGGCCAGGACCC
CTCCACTGTCCCGGAGGAAAGCTGTAGACATGCGGCTGCGGATGGAGTTGGGTGCTCCAGAAGAGATGGGGCAGG
TGCCCCCACTTGACTCTCGCCCCAGCTCCCCAGCCCTCTACTTCACCCACGATGCCAGCCTGGTTCACAAATCTC
CAGACCCCTTCGGAGCAGTAGCAGCTCAGAAGTTCAGCCTGGCCCACTCCATGTTGGCCATCAGTGGTCACCTAG
ACAGCGACGATGATAGTGGCTCCGGAAGCCTGGTTGGCATTGACAACAAATCGAGCAAGCCATGGACTTGGTGA
AGTCCACCTCATGTTTGCGGTCCGGGAGGAGGTGGAGGTGCTGAAGGAGCAGATCCGGGAACCTGGCGGAGCGGA
ACGCTGCGCTGGAGCAGGAGAATGGGCTGTGCGCGCCCTGGCCAGCCCGGAGCAGCTGGCTCAGCTGCCCTCCT
CGGGGGTCCCACGGCTTGGGCCCCCTGCGCCCAATGGGCCCTCCGTCTAGGCCTCCCTTCCCTTACAATGTGCCT
TTGGGGCTGCCCCGCCTTGCCTCAGCCGCTGCCCTCTTCTATGCAGCTTTAATGTCCCCGTGTCCCCGGG
TGGGAGTTCAAGGCTCAGTAATGGCCTGGTCCCCCGGCCCTGCCCATCTCCTCATCATCCCCAGCCTTGATGG
AGGAGGGAGGGCTTCAGGACGGGGCGTCAGAGGAGCCCCCTCTGGGAGGGAACCAACCCCCACCCTCCCTCCTG
GGACCCCCCAGCAGTAGACGGCTTGGGGGAGTCGGAGGCTCCCCGGCAGACACCCACCCCCATCTTGTTCCTT
GAGGTGCCTCCTCTCCTCTGCCAGGGGAGGGAGTGTGGACAGTATCTGGAAGTTCTGGGATTAGGTGTTATT
AAAATAATAATAATAATTAATAAACTCTGAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2332

MSGGKKKSSFQITSVTTDYEGPGSPGASDPPTPQPPTGPPRLPNGEPSDPDGGKGTPRNGSPPPGAPSSRFV
KLPHGLGEPYRRGRWTCVDVYERDLEPHSFGLLEGIRGASGGAGGRSLDSRLELASLGLGAPTPPSGLSQGPTS
WLRPPPTSPGPQARSFTGGLGQLVVP SKAKAEKPPLSASSPQQRPEPETGESAGTSRAATPLPSLRVEAEAGGS
GARTPPLSRRKAVDMRLRMELGAPEEMQVPPLDSPSSPALYFTHDASLVHKSPDPFGAVAAQKFSLAHSMIAI
SGHLDSDDDSGSGSLVGIDNKIEQAMD LVKSHLMFAVREEVEVLKEQIRELAERNAALEQENGLLRALASPEQLA
QLPSSGVPRLGPPAPNGPSV

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FIGURE 2333

ATTTAACTCCCAGAGCCGTTAAGTTGGTTTCGTAGTCTGATGCGCGCAACCAGGGTGGTGGCGGAGTGCGCAT
GCGTGGTTCCGGGGCGAAGGGAACGCGCGCTCACCCTGCGCGCTCGCGGCCGGGTGGTAGTGGCGGAGGAGAAAG
GGGTGCGCGCACGCGCGTTGAGTCTCGAGTAGTTCGGGTCTCGCGGGCCTCTTGTGTTTGGTCTCGCGGGCTAG
TAGGGCGCACCTTGCGGGGAGGCGCTTGGGCGCGAGACTAGGCGTGAAGAGCAGAGCTGCGCGCGCACTCGGGAA
AGGGGGGAAGGGAGCAGGGTCCAGGCAGGGGGGGTTAGGCCCCCTGATCCCCCTCGTTACCCCGACTGGCACGGA
ATAAGGGGAGGAAATGATCGAGATGGCGGCGGAGAAGGAGCCGTTTCTGGTGCCGGCCCCCGCCGCGCGCTCAA
AGATGAGTCGGGCGAGGGGGCGCCCCACGGTGCACCCGACCAAGAGGCCCTCTGGGGAGCTCCGCGGCGG
GACGGAGCGTGGTCCGGGTCGTTGCGCGCCATCTGCGGGGTCCCCAGCCGCTGCGGTGGTGGGAAAGCCCCGG
GGCCGCGGCCACCTCCTCCAGTGGTCCCCAGGCGCAGCAGCACCGAGGGGGCGGCCCCAGGCGCAGTCGCATGG
GGAGGCCCGCCTGTGCGATCCCCCGGGCGAGCCGCTCCCCCGGACGTGGGGGAGGAGCGCCGGGAGGGGGCGG
GACAGAGCTGGGTCCCCCTGCTCCTCCTCGACCCCGCAATGGCTATCAGCCCCACCGGCCACCTGGGGGGGGCGG
GGGCAAGAGGAGAAATAGCTGTAATGTAGGGGGAGGCGGGGAGGCTTCAAACATCCGGCCTTCAAGAGGCGCAG
GCGGGTGAATTGCGACTGTGACTCTGTGTTACCTTCCAACTTCTCCTGGGGGGCAATATCTTTGATCCCCTGAA
CCTGAATAGCCTCCTGGATGAGGAAGTGAGCCGCACTCTCAACGCGGAGACCCCTAAGTCATCCCCCTTCCGGC
CAAAGGGCGAGATCCGGTGGAGATCCTCATCCCCAAAGATATTACTGACCCGCTCAGTCTCAATACTTGCATGA
TGAGGGCCATGTAGTTCTTGTCTCGCCACTCAAGACTGGTGGGAAGCGGCATAGACACCGGGGACAGCACCACCA
GCAGCAGCAGGCAGCCGGAGGGAGTGAGAGCCACCCCGTGCCGCCCACAGCCCTCTCACCCCTTACTCCACGG
GGAGGGCGCCTCACAGCAGCCGCGGCACAGGGGCCAGAACCGGGATGCCCCCAACCCTATGAACTCAACACAGC
CATCAACTGCAGGGATGAAGTGGTGTCTCCCTTCCATCTGCTCTGCAGGGTCCCTCAGGCTCCCTATCAGCCCC
TCCAGCTGCCTCAGTTATCTCTGCACCCCCATCTTCTCCTCCCGACATCGCAAACGTGCGAGGACTTCCAGCAA
GTCCGAGGCAGGGGCTAGGGGTGGAGGCCAGGGTTCCAAGGAAAAGGGCCGAGGGAGTTGGGGAGGCCGCCACCA
CCACCACCACCCACTGCCTGCAGCAGGCTTCAAAAAGCAACAGCGCAAGTCCAGTATGGGAATTATTGCAAATA
CTATGGGTACCGCAATCCTTCTGTGAGGATGGGCGCCTTCGGGTGTTGAAGCCTGAGTGGTTTCGGGGCCGGGA
CGTCTAGATCTGGGCTGCAATGTGGGCCATCTGACCCTGAGCATTGCCTGCAAGTGGGGCCCGTCCCGCATGGT
GGGCTGGATATCGATTCCCGGCTCATCCATTCTGCCCGCCAAAACATCCGACACTACCTTCCGAGGAGCTGCG
TCTCCACCCAGACTTTGGAAGGGGACCCGGGGCAGAGGGTGAGGAAGGGACCACCAGCTCGAAAGAGGAG
CTGCTTCCAGCCTCGCTGACTGCCAGCCGGGGTCCCATCGCTGCCCCCCAAGTGCCCTTGATGGAGCGGACAC
ATCAGTCTTCCCAACAATGTTGTCTTCGTCACGGTAATTATGTGCTGGATCGAGATGACCTGGTGGAGGCCCA
AACACCTGAGTATGATGTGGTGCTCTGCCTCAGCCTCACCAAGTGGGTGCATCTGAACTGGGGAGACGAGGGCCT
GAAGCGCATGTTTCGCCGATCTACCGGCACCTACGCCCTGGGGGCATCTGGTCTAGAGCCCCAACCTTGGTC
GTCGTATGGCAAGAGAAAGACTCTTACAGAAACGATCTACAAGAACTACTACCGAATCCAATTGAAGCCAGAGCA
GTTCACTTCTACCTGACATCCCCAGACGTGGGCTTCTCCAGCTATGAGCTTGTGGCCACACCCACAACACCTC
TAAAGGCTTCCAGCGTCTGTGTACCTGTTCCACAAGGCCCGATCCCCAGCCACTAAGTGGCCCCCTAAACAGA
AAGTGTGAAGAGGCTGCCCTCGCTGCTCATAAGGACCTGGGGGAAGAGGAAAGTGTCCAAGGTCTTCTCTTCT
GACTCCAAAATAGTTTCTTCTTGGATCTGAAAGAAAGCTTTCTTCCGTGCTGCCTCAGCCTCCTCCTTA
TGCTCTGGCACCTGCGCAGCAAGGCTGGCTGTGCTGGAGTACCATCATCTTCTCTCCCCAGCCTCCAGGC
TGGATGGCATGGACTGTTTGCTGACCTCTGTTCTCTTAGGGCATGGGAGGTGGGAGGATATCAAATCTCTAGCC
CTTCTCTCTATTCTCTAGCCCTTCTATTCTCCCAAGGAGAGAGATTCCATTCTCTCTCGGCCATTGTACCTAG
CTCTTGTCCCTAGCTGCATTTCACTGGACCATGGATAGAGGGACTGAGGGTTAGACGGAGAAGACTGGCAGGGAG
GCACGCAGGTACTGTGAAAATCCTTCCCTTTCCTTCCCCAGTGGGAGAGGGGGTTGGGTTTTCAATGTGAGAA
CAGCACAAATAAATTGATGTCTAGGGCAGTGGCCCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 2334

MVGLDIDSRLIHSARQNIRHYLSEELRLPPQTILEGDPGAEGEGTTTVRKRSCFPASLTASRGPIAAPQVPLDGA
DTSVFPNNVVFVTGNYVLDRDDLVEAQTPEYDVVLCLSLTKWVHLNWDGLKRMFRRIYRHLRPGGILVLEPQP
WSSYGKRKTLTETIYKNYYRIQLKPEQFSSYLTPDVGFSSYELVATPHNTSKGFQRPVYLFHKARSPSH

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FIGURE 2335

GGCACGAGGGGAAGTGGCTGTTTGGCTGCTGACAACATGAAGACTTCCTGCCGATGAGAACAGAGGCACAGGTGCC
GGCCCTGCAGCCCCCAGAACCTGGACTGGAGGGGGCCATGGGGCACCAGACCTGGTCCTGCCCTGGGTGCTGCT
GACCTTGTGTGTCAGTGCAGGGGACCCCGGAGGTGTGGGTTCAAGTTCGGATGGAGGCCACCGAGCTCTCGTCCTT
CACCATCCGTTGTGGGTTCCCTGGGGTCTGGCTCCATCTCCCTGGTACTGTGAGCTGGGGGGGCCCCGACGGTGC
TGGGGGGACCACGCTGGCTGTGTTGCACCCAGAACGTGGCATCCGGCAATGGGCCCTGCTCGCCAGGCCCCGCTG
GGAAACCCAGAGCAGCATCTCTCATCCTGGAAGGCTCTGGGGCCAGCAGCCCCCTGCGCCAACACCACCTTCTG
CTGCAAGTTTTCGCTCCTTCCCTGAGGGCTCCTGGGAGGCCTGTGGGAGCCTCCCGCCCAGCTCAGACCCAGGGCT
CTCTGCCCCGCCGACTCCTGCCCCATTCTGCGGGCAGACCTGGCCGGGATCTTGGGGGTCTCAGGAGTCCTCCT
CTTTGGCTGTGTCTACCTCCTTCATCTGCTGCGCCGACATAAGCACCAGCCCTGCCCTAGGCTCCAGCCGTCCCG
CACCAGCCCCCAGGCACCGAGAGCAGCAGCATGGGCACCAAGCCAGGCCTCCAGGCTGCTCTTCACGTCCCTTA
TGCCACTATCAACACCAGCTGCCGCCAGCTACTTTGGACACAGCTCACCCCATGGGGGGCCGTCTGTTGGGC
GTCACCTCCCCACCCACGCTGCACACCGGCCCCAGGGCCCTGCCGCTGGGCCTCCACACCCATCCCTGCACGTGG
CAGCTTTGTCTCTGTTGAGAAATGGACTCTACGCTCAGGCAGGGGAGAGGCCTCCTCACACTGGTCCCGGCCTCAC
TCTTTTCCCTGACCCTCGGGGGCCCCAGGGCCATGGAAGGACCCTTAGGAGTTCGATGAGAGAGACCATGAGGCCA
CTGGGCTTTCCCCCTCCAGGCCTCCTGGGTGTCTATCCCTTACTTTAATTCTTGGGCTCCAATAAGTGTCCCA
TAGGTGTCTGGCCAGGCCCACCTGCTGCGGATGTGGTCTGTGTGCGTGTGTGGGCACAGGTGTGAGTGTGTGAGT
GACAGTTACCCCATTTAGTCATTTCTGCTGCAACTAAGTCAGCAACACAGTTTCTCTGAAAAAAAAAAAAAA
AAAA

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FIGURE 2336

MRTEAQVPALQPPEPGLEGAMGHRTLVLFPWLLTLCVTAGTPEVWVQVRMEATELSSFTIRCGFLGSGSISLVTV
SWGGPDGAGGTTLAVLHPERGIRQWAPARQARWETQSSISLILEGSGASSPCANTTFCKKFASFPEGSWEACGSL
PPSSDPGLSAPPTPAPILRADLAGILGVSGVLLFGCVYLLHLLRRHKHRPAPRLQPSRTSPQAPRARAWAPSQAS
QAALHVPYATINTSCRPATLDTAHPHGGPSWWASLPTAAHRPQGPAAWASTPIPARGSFVSVENGLYAQAGERP
PHTGPGLTLFPDPRGPRAMEGPLGVR

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FIGURE 2337

AAGGGTCTAGGATACAGTCTTTGTAGATGAGCGGGTCCCCCTTGGAGGACAGAATGAAGAATTGGGAAATCATGG
CCGTTTCTGGAGAGTAGACAAGAAGACGGCGAAAGTCGGGCCTGCCCCGCCCTGCGGCCCCGGAACAAAAGAACGC
GTGTGCGCTGGCCCTTTAAGAGCGATTCTCCTCCGCCCGCGCCAGCTCGGACCGCGGGAAACCCGGCGCCTGCAC
TACCCCGCCCCGAGATTCCCTTCCGACGCCCCGACCGCCTCCCCGTCACTCATTCTAGGCCCCGACGGTGATTGG
CTTGCGGCTAGCGGGAGGTGAAGAAGGCCGCTTGTCCGATTGGCCCCGACGAGTGGCGCCGGTCACGTGGGGG
GCGACGTTTCGCGCCAATTTTCGTTGGCCGGCCACAGTCCACCGCGCGGAGATTCTCAGCTTCCCCAGGAGCAAG
ACCTCTGAGCCCCCAAGCGCGGCCGACGGCCCTCGGCAGCGATGGCACTGAAGGACTACGCGCTAGAGAAGGA
AAAGGTTAAGAAGTTCTTACAAGAGTTCTACCAGGATGATGAACTCGGGAAGAAGCAGTTCAAGTATGGGAACCA
GTTGGTTTCGGCTGGCTCATCGGGAACAGGTGGCTCTGTATGTGGACCTGGACGACGTAGCCGAGGATGACCCGA
GTTGGTGGACTCAATTTGTGAGAATGCCAGGCGCTACGCGAAGCTCTTTGCTGATGCCGTACAAGAGCTGCTGCC
TCAGTACAAGGAGAGGGAAGTGGTAAATAAAGATGTCCTGGACGTTTACATTGAGCATCGGCTAATGATGGAGCA
GCGGAGTCGGGACCTTGGGATGGTCCGAAGCCCCCAGAACCAGTACCTGCTGAACCTCATGCGCAGATTGTGAGT
GGTCTCTGTGCGGAAAGATGTAGGGATTGGTTCTCCAGGATCTTGTGTTGTGACTGTTTTCTCCCTTAGTGAGCT
GTATTTTCAAGGCCCTAGCAGCAACAAGCCTCGTGTGATCCGGGAAGTGGCGGCTGACTCTGTGGGGAAGTTGGT
AACTGTGCGTGGAAATCGTCACTCGTGTCTCTGAAGTCAAACCAAGATGGTGGTGGCCACTTACACTTGTGACCA
GTGTGGGGCAGAGACCTACCAGCCGATCCAGTCTCCCACTTTTCATGCCTCTGATCATGTGCCCAAGCCAGGAGTG
CCAAACCAACCGCTCAGGAGGGCGGCTGTATCTGCAGACACGGGGCTCCAGATTTCATCAAATCCAGGAGATGAA
GATGCAAGAACATAGTGATCAGGTGCCTGTGGGAAATATCCCTCGTAGTATCACGGTGTGGTAGAAGGAGAGAA
CACAAGGATTGCCAGCCTGGAGACCAGCTCAGCGTCACTGGTATTTTCTTGCCAATCCTGCGCACTGGGTTCCG
ACAGGTGGTACAGGGTTTACTCTCAGAAACCTACCTGGAAGCCCATCGGATTGTGAAGATGAACAAGAGTGAGGA
TGATGAGTCTGGGGCTGGAGAGCTCACCAGGGAGGAGCTGAGGCAAATTGCAGAGGAGGATTTCTACGAAAAGCT
GGCAGCTTCAATCGCCCCAGAAATATACGGGCATGAAGATGTGAAGAAGGCACTGCTGCTCCTGCTAGTCGGGGG
TGTGGACCAGTCTCCTCGAGGCATGAAAATCCGGGGCAACATCAACATCTGTCTGATGGGGGATCCTGGTGTGGC
CAAGTCTCAGTCTCTGTATACATTGATCGACTGGCGCCTCGCAGCCAGTACACAACAGGCCGGGGCTCCTCAGG
AGTGGGGCTTACGGCAGCTGTGCTGAGAGACTCCGTGAGTGGAGAAGTACCTTAGAGGGTGGGGCCCTGGTGTCT
GGCTGACCAGGGTGTGTGCTGCATTGATGAGTTCGACAAGATGGCTGAGGCCGACCGCACAGCCATCCACGAGGT
CATGGAGCAGCAGACCATCTCCATTGCCAAGGCCGGCATTCTCACCACACTCAATGCCCCGTGCTCCATCCTGGC
TGCCGCCAACCCTGCCTACGGGCGCTACAACCCTCGCCGAGCCTGGAGCAGAACATACAGTACCTGCTGCACCT
GCTCTCCCGGTTTGACCTCCTCTGGCTGATTCAAGGACCGGCCGACCGAGACAATGACCTACGGTTGGCCCCGCA
CATCACCTATGTGCACCAGCACAGCCGGCAGCCCCCTCCAGTTTGAACCTCTGGACATGAAGCTCATGAGGCG
TTACATAGCCATGTGCCGCGAGAAGCAGCCCATGGTGCCAGAGTCTCTGGCTGACTACATCACAGCAGCATACGT
GGAGATGAGGCGAGAGGCTTGGGCTAGTAAGGATGCCACCTATACTTCTGCCCGGACCCCTGCTGGCTATCCTGCG
CCTTTCCACTGCTCTGGCAGCTCTGAGAATGGTGGATGTGGTGGAGAAAGAAGATGTGAATGAAGCCATCAGGCT
AATGGAGATGTCAAAGGACTCTCTTCTAGGAGACAAGGGGCAGACAGCTAGGACTCAGAGACCAGCAGATGTGAT
ATTTGCCACCGTCCGTGAAGTGGTCTCAGGGGGCCGAAGTGTCCGGTTCTCTGAGGCAGAGCAGCGCTGTGTATC
TCGTGGCTTACACCCGCCAGTTCCAGGCGGCTCTGGATGAATATGAGGAGCTCAATGTCTGGCAGGTCAATGC
TTCCCGGACACGGATCACTTTTGTCTGATTCCAGCCTGCTTGCAACCCTGGGGTCTCTTGTTCCTGCTGGCCT
GCCCCTTGGGAAGGGGCAGTGATGCCTTTGAGGGGAAGGAGGAGCCCCCTCTTTCTCCCATGCTGCACTTACTCCT
TTTGCTAATAAAAGTGTGTTGTAGATTGTCTCTTAGCCTGGGCCTGACTTCCATTAAAACAGGGTTTGTGCG
TTTTTTAGATTCTGTTCGTTTTTATGCTATTTTCATCCACTCAGTAAATTACCTGAGTAAAGTGCATCTCCCTGC
CAGGCCCCCAGTATAGACACTGGGGATCGGCAAGGACTAAGCGGTCCCTGCTGTTTGGAGATACTTAAGATGGG
GCTCCACTTTTTGAGCCCCCGACTCCCT

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FIGURE 2338

GGCACGAGGGGAAAAATGGCGGCGGCGGCGGCGGCGGCTGCAGCTACGAACGGGACCGGAGGAAGCAGCGGGATGG
AGGTGGATGCAGCAGTAGTCCCCAGCGTGATGCGCCTGCGGAGTGACTGGGAGTGTTTCCGTCGCTCTCCATCCCC
TTGTCAATTCTCAACATCTCAGACCACTGGATCCGCATGCGCTCCCAGGAGGGGCGGCCTGTGCAGGTGATTGGGG
CTCTGATTGGCAAGCAGGAGGGCCGAAATATCGAGGTGATGAACTCCTTTGAGCTGCTGTCCCACACCGTGGAAG
AGAAGATTATCATTGACAAGGAATATTATTACACCAAGGAGGAGCAGTTTAAACAGGTGTTCAAGGAGCTGGAGT
TTCTGGGTTGGTATACCACAGGGGGGCCACCTGACCCCTCGGACATCCACGTCCATAAGCAGGTGTGTGAGATCA
TCGAGAGCCCCCTCTTTCTGAAGTTGAACCCTATGACCAAGCACACAGATCTTCCTGTCAGCGTTTTTGAGTCTG
TCATTGATATAATCAATGGAGAGGCCACAATGCTGTTTGCTGAGCTGACCTACACTCTGGCCACAGAGGAAGCGG
AACGCATTGGTGTAGACCACGTAGCCCGAATGACAGCAACAGGCAGTGGAGAGAACTCCACTGTGGCTGAACACC
TGATAGCACAGCACAGCGCCATCAAGATGCTGCACAGCCGCGTCAAGCTCATCTTGAGTACGTCAAGGCCTCTG
AAGCGGGAGAGGTCCCCCTTTAATCATGAGATCCTGCGGGAGGCCTATGCTCTGTGTCACTGTCTCCCGGTGCTCA
GCACAGACAAGTTCAAGACAGATTTTATGATCAATGCAACGACGTGGGGCTCATGGCCTACCTCGGCACCATCA
CCAAAACGTGCAACACCATGAACCAGTTTGTGAACAAGTTCAATGTCTCTACGACCGACAAGGCATCGGCAGGA
GAAATGCGCGGGCTCTTTTTCTGATGAGGGTACTTGAAGGGCTGATGGACAGGGGTCAGGCAACTATCCCAAAGGG
GAGGGCACTACACTTCCTTGAGAGAAACCGCTGTCTAATAAAAAGGGGAGCAGCCCCTGAGCACCAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2339

MACGVTGSVSVALHPLVILNISDHWIRMRSQEGRPVQVIGALIGKQEGRNIEVMNSFELLSHTVEEKIIDKEYY
YTKEEQFKQVFKELEFLGWYTTGGPPDPDSIHVHKQVCEIIESPLFLKLNPMTKHTDLPVSVFESVIDIINGEAT
MLFAELTYTLATEEAERIGVDHVARMTATGSGENSTVAEHLIAQHSIAKMLHSRVKLILEYVKASEAGEVFPNHE
ILREAYALCHCLPVLSTDKFKTDFYDQCNDVGLMAYLGTTTKCNTMNQFVNKFNVLYDRQGIGRRMRGLFF

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FIGURE 2340

GCTTCCGGCACGGGATGTTTTCGGTTGTTTGACCGAGAGAGTTGTAGGCGCAAAGCTGAGGAAAGGAGAGTGTGG
AGAGGGGCCTGGTGTGGTGGGGCCCGGTGTTTGGGACCGGAGGGTGTGACGGCTGATGAGTTCCTTGGGTTTGC
TCTTTCTTACCTGAAAAGAAGACTCCAGGAAGGGCAGCACATGCCGGAGAAAAGATGAATTGCAGCTTGACCGCC
CAGAGGGCGCGCAGTGACGCCGAGTTGGGACCTGGGTGATGGCTGCGAGGTCCAAGGACGCGGCGCCGTCCCAA
CGCGACGGACTTTTGGCCGTGAAAGTGGAGGAAGACTCACCCGGAAGTTGGGAGCCCAACTATCCCGCGGCTTCG
CCGGACCCGAACTTCTCGACTGCACCTTAGGCAGCTGCGTTACCAGGAGGTGGCTGGACCGGAAGAGGCGCTG
AGCCGGCTCCGAGAACTCTGTCGTGGTGGCTGAGACCCGAGCTGCTCTCCAAGGAGCAGATCCTGGAGCTGCTG
GTGCTGGAGCAGTTCTCTACCATCCTGCCCCGAGGAGCTTCAAGCCTGGGTGCGAGAGCACTGCCCAGAGAGCGGG
GAGGAGGCGGTGGCCGTGGTGGCGGCTCTGCAGCGAGCGCTCGATGGAACCTCATCCAGGGGATGGTGACTTTC
GAGGACACGGCTGTGTCTCTAACCTGGGAGGAGTGGGAGCGCCTGGACCCAGCACGGAGGGACTTCTGCAGAGAG
AGTGCGCAGAAAGGATTCCGGGAGCACAGTTCGCCCGAGTTTGGAAAGCAGAGTGGAGAACAAAGAGTTGATTCCA
ATGCAACAAATTTTAGAAGAAGCGGAGCCACAGGGGCAACTACAAGAAGCGTTCCAGGGGAAGCGCCCCCTGTTT
TCTAAGTGTGGCAGTACCCATGAGGACAGGGTGGAAAAGCAGTCCGGAGACCCCTTGCCCTGAACTTGAAAT
TCTCCTGAAGCAGAAGGACTCAACAGCATCTCAGATGTCAATAAGAATGGTTCATAGAAGGGGAAGACTCTAAA
AATAATGAATTGCAGAACAGTGCCAGGTGTTCCAACCTTGTTCTATGTCAGCACATCCCGAAAGCAGAGAGGCCC
ACTGACAGTGAGGAACACGGGAACAAGTGCAAGCAAAGTTTCCACATGGTGACGTGGCACGTGCTGAAACCTCAC
AAGTCTGACAGTGGAGACAGTTTCCATCATTCCAGCCTTTTGTAGACCCAGAGGCAGCTCCATGAAGAAAGACCT
TATAAATGTGGTAACTGTGGGAAGAGTTTCAAACAACGCTCTGACCTCTTTAGACACCAGAGAATCCACACAGGT
GAGAAACCCCTATGGCTGCCAAGAATGTGGGAAAAGCTTCAGCCAGAGTGCTGCCCTGACCAAGCACAGAGGACA
CACACAGGCGAGAAGCCGTACACCTGTCTGAAATGTGGGGAGCGCTTCAGGCAGAATTCACACCTAAATCGTCAT
CAAAGTACCCACAGTAGAGACAAACATTTTAAATGTGAGGAATGCGGGGAAACCTGTCATATTTCCAACCTTTTT
AGACATCAGAGACTACATAAAGGGGAAAGACCCTATAAGTGTGAAGATGCGAGAAGAGCTTCAAACAGCGCTCT
GACCTCTTTAAACACCACAGAATCCACACTGGGGAGAAGCCCTATGGATGTTCCGTCTGTGGGAAACGCTTCAAT
CAGAGTGCAACCCCTATTAAACACCAGAGAATTCACACTGGGGAAAAGCCTTACAAATGTCTTGAATGTGGGGAA
AGATTTAGACAAAGTACACACCTTATCCGACACCAAAGAATTCATCAAAATAAAGTGCTGTGCGCTGGGCGTGGT
GGCTCACGCCTATTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCATTGAGATCAGGAGTTTGAAACCAG
CCTGGCCAACATGGTGAAATTTCTGTCTCTACTAAAAATACAAAATGAGCCGGGCATGGTGGTGCATGCCTGTAA
GCCCAGCTATTCCGGAGGCTGAGGTAGGAGAATCACTTGAACCCAGGAGCGGAAGTTGCAGTGAGCTGAGATCA
TGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCCATCTCAAAAAAGAAATAAAGTGCTGTCAATTTTGAT
ATGTT

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FIGURE 2341

MNCSLTAQRRGSDAELGPWVMAARSKDAAPSQRDGLLPVKVEEDSPGSWEPNYPAAASPDPEPETSRLHFRQLRYQEV
AGPEEALSRLRELCRRWLRPELLSKEQILELLVLEQFLTILPEELQAWVREHCPESGEEAVAVVRALQRALDGT
SQGMVTFEDTAVSLTWEWERLDPARRDFCRESAQKDSGSTVPPSLESRVENKELIPMQQILEEAEPQGQLQEAF
QGKRELFSSKCGSTHEDRVEKQSGDPLPLKLENSPEAEGLNSISDVNKNKSIEGEDSKNNELQNSARCSNLVLCQH
IPKAERPTDSEEHGNKCKQSFHMTWHVLKPHKSDSGDSFHSSLFETQRLHEERPYPKCGNCGKSFKQRSDFR
HQRHTGEKPYGCQECGKSFSQSAALTKHQRHTHTGEKPYTCLKGERFRQNSHLNRHQSTHSRDKHFKCEECGET
CHISNLFRRHQLHKGERPYKCECEKSFQRSDFKHHRIHTGEKPYGCSVCGKRFNQSATLIKHQRHTGEKPY
KCLECGERFRQSTHLIRHQRHQNKVLSAGRGG SRL

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FIGURE 2342

GGGCACAGCGGACACCAGGACTCCAAAATGGCGTCAGTTGGTGAGTGTCCGGCCCCAGTACCAGTGAAGGACAAG
AAACTTCTGGAGGTCAAAC TGGGGGAGCTGCCAAGCTGGATCTTGATGCGGGACTTCAGTCCTAGTGGCATTTC
GGAGCGTTTCAAAGAGGTTACTACCGGTACTACAACAAGTACATCAATGTGAAGAAGGGGAGCATCTCGGGGATT
ACCATGGTGCTGGCATGCTACGTGCTCTTTAGCTACTCCTTTTCCTACAAGCATCTCAAGCACGAGCGGCTCCGC
AAATACCACTGAAGAGGACACACTCTGCACCCCCCACCACGACCTTGGCCCGAGCCCCTCCGTGAGGAACAC
AATCTCAATCGTTGCTGAATCCTTTCATATCCTAATAGGAATTAACCTCCAAATAAAACATGACTGGTAAAAAA
AA

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FIGURE 2343

MASVGECPAPVPVKDKKLEVKLGELPSWILMRDFSPSGIFGAFQRGYYRYYNKYINVKKGSISGITMVLACYVL
FSYSFSYKHLKHERLRKYH

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FIGURE 2344

TCGCTCGCTCCTCCTTCGCTTCGCCTCGCCGCCGCCATGCAGGAAATCATCGCCAGCGTGGACCACATCAAGTTT
GACTTGGAGATCGCGGTGGAGCAGCAGCTGGGGGCGCAGCCGCTGCCCTTCCCCGGCATGGACAAGTCGGGCGCT
GCTGTCTGTGAATCTTTTGGAAAGCTGCCTGCGGCAAAGGGGGCATGTGTCCGTTTCGCCACATCAGTGGTGAG
AAGACAGTTGTGTGCAAACACTGGCTGCGTGGCCTATGCAAGAAAGGGGACCAGTGTGAGTTCTGTCATGAGTAT
GACATGACCAAGATGCCCCGAGTGCTACTTCTACTCCAAGTTCGGGGAGTGCAGCAACAAGGAATGTCCCTTCCTG
CACATCGACCCCGAGTCCAAGATCAAGGACTGTCTTGGTATGACCGCGGCTTCTGCAAGCACGGTCCCCCTCTGC
AGGCACCGGCACACACGGAGAGTCATCTGTGTGAATTACCTCGTGGGATTCTGCCCCGAGGGGGCCCTCGTGTAAA
TTCATGCACCCTCGATTGAACTGCCCATGGGAACCACCGAGCAGCCCCCACTGCCACAGCAGACACAGCCTCCA
GCAAAGCAAAGTAACAATCCGCCATTACAAAGGTCGTCTCCTTGATCCAGTTAACGAGTCAGAACTCTTCTCCC
AATCAGCAGAGAACCCCGCAGGTCATCGGGGTCATGCAGAGTCAAAACAGCAGCGCGGGCAACCGGGGACCCCGG
CCACTGGAGCAGGTCACCTGTTACAAGTGTGGCGAGAAAGGACACTACGCCAACAGATGCACCAAAGGGCACTTG
GCCTTCTCAGTGGACAGTGCAGCAGCTGGAGCCAGCTCCGAGCAGCCCCGGGGGGCCCCGCTGTTGGGAGTGTGC
ATTTAACTGTTTCATGCGCTTGTGGCGCGACTGTGGCTCGAGCTGGCCCCGAGACACGTGGGTTTCATCACTCT
GAGGGGCCACGTCTGTTAGTTTCTATCATTTTGGCGTAGTATTTTTGAAAAAGGGACATGTGTCTGTGGGTC
CCTGCAGTCGACATCATGTTTGGCTGGGCATCGATGCCTCCTTTCTGGGACTCCCGGCACAACTCCCCTCATCCA
GGGAGGGAGGCAGCTGCTGGGGAGGGGCTTGGCTAGGTAGTTCTGTGTGGCGGTGGTCATTCCCCTCATTAACA
CCAGTTCTTGGTGACGCCAGGGGCTGGTAGGTCAATCAAAGCTGTGGCCAGCTCACGCCTGCTTCCTCCCTCCCT
GCCCTGCTGAATCCTAAAGCTGTGCCTATATCTGTGATTGAATGAGGGAGCCCTTTGGGGCAAATTCAGGTGCC
CCCATTGCCTCAGGCTGGCCCTGGTCCAGGTGGCAGCGGTTGAGGAGGGGTACAGGGCTCTCAAGCCTGAGGTT
TTCTTCTCTGGGCTTAATTTTCTCTTGGGGTACGTGCCTGACAGTGTTTAAGGTGTCCGTTGAACTGGAGTTGCA
GACTTTTAAATAGATGACCCCTTCAGATCATCTGTGCCTACCTCCTGCCCATCAGGCGTCTACACTGTCACTCAG
ACACCTGTGGCATGTGGAGGAGACTGCCCTGTCTGAGCCTGGAAAATGTGAACTGTCTCCTGCAACCTGTCTGG
GCATGTGGGCCTGGCTGTGTTCAATTGCAAGAACAATTTTTATGAAATGGATTAAAGCTTGTTTTTT

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FIGURE 2345

MQEIIASVDHIKFDLEIAVEQQLGAQPLPFPMDKSGAAVCEFFLKAACGKGGMCPFRHISGEKTVVCKHWLRGL
CKKGDQCEFLHEYDMTKMPECYFYSKFGECSNKECFPLHIDPESKIKDCPWYDRGFCKHGPLCRHRHTRRVICVN
YLVGFCPEGPSCKFMHPRFELPMGTTEQPPLPQQTQPPAKQSNNPPLQRSSSLIQLTSQNSSPNQQRTPQVIGVM
QSQNSSAGNRGPRPLEQVTCYKCGEKGHYANRCKGHLAFLSGQ

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FIGURE 2346

CTGAGCGGGAGACCGGTGGTCTGCACCGTCTGGAGGGAGATATGAGTGGCTGGACTCTCAGCCAGCCACTGGG
ATGTGTTTCGGGCTTTGGACCTTGAGGCCGGAGAGAGCTCCCGAGAGGAGGCGGCCACGTTTCGTTCTTCTGAGG
GGACGGTAGATTTGGGGGTTTTCTCTAGGATTCTCGCGCCGTTTCTCTGAAGAAACAGGACCAGAGAGGGAAG
GTGACCTGAAAGTCACAGAATAATTTTTAGAGCTGAACAAGAATCCAAGCCTGCAACTGCAGAGACGAGAGATC
TTTCTGCTGTCTATACTCTTGGAAGCACATCCTAAGATCTTTGCAGATTATCCTGTGGAAGGAAAATGCCTAAA
GTCAAAAGAAGCCGGAAGCACCCCCAGATGGCTGGGAGTTGATTGAGCCAACACTGGATGAATTAGATCAAAAG
ATGAGAGAAGCTGAAACAGAACCGCATGAGGGAAAGAGGAAAGTGGAATCTCTGTGGCCCATCTTCAGGATCCAC
CACCAGAAAACCGCTACATCTTCGACCTCTTTTACAAGCGGAAAGCCATCAGCAGAGXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXACAAAACCTGATTGCAAAATGGAAGCAAGGATATGAGAACTTGTGCTGCCTG
CGGTGCATTTCAGACACGGGACACCAACTTCGGGACGAACTGCATCTGCCGCGTGCCAAAAGCAAGCTGGAAGTG
GGCCGCATCATCGAGTGACACACTGTGGCTGTCTGGCTGCTCTGGCTGAGGCTGGCGCGCTCCACCCTGGACT
CTGGACTTCGCAGGTTCTGCCTGTCACGCCACCCCTTCTGGGAGCAGCGAGCAGTGCCCCAGGCCCGAGTTG
GAGCACGGTCTCTATGGGGAAGGCTTCGCTGTCTATCAGCTGTGATTTGTAAAATAAAATCTTTAAATCTCTCG

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FIGURE 2347

MPKVKRSRKAPPDGWELIEPTLDELQKMREAETEPHEGKRKVESLWPIFRIHHQKTRYIFDLFYKRKAISRXXX
XXXXXXXXXXKNLIAKWKQGYENLCCLRCIQTRDTNFGTNCICRVPKSKLEVGRIEEECTHCGCRGCSG

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FIGURE 2348

GGCACGAGGGAGCCCAGAGCCGGTTCGGCGCGTCTGACTGCCAGAGTCCGCGGCCGGGGCGCGGGAGGAGCCAAG
CCGCCATGGCCTACCACAGCTTCCTGGTGGAGCCCATCAGCTGCCACGCCTGGAACAAGGACCGCACCCAGATTG
CCATCTGCCCCAACCAACCATGAGGTGCATATCTATGAAAAGAGCGGTGCCAAATGGACCAAGGTGCACGAGCTCA
AGGAGCACAACGGGCAGGTGACAGGCATCGACTGGGCCCCCGAGAGTAACCGTATTGTGACCTGCGGCACAGACC
GCAACGCCTACGTGTGGACGCTGAAGGGCCGCACATGGAAGCCACGCTGGTCATCCTGCGGATCAACCGGGCTG
CCCGCTGCGTGCGCTGGGCCCCAACGAGAACAAGTTTGCTGTGGGCAGCGGCTCTCGTGTGATCTCCATCTGTT
ATTTGAGCAGGAGAATGACTGGTGGGTTTGCAAGCACATCAAGAAGCCCATCCGCTCCACCGTCCTCAGCCTGG
ACTGGCACCCCAACAATGTGCTGCTGGCTGCCGGCTCCTGTGACTTCAAGTGTGGATCTTTTCAGCCTACATCA
AGGAGGTGGAGGAACGGCCGGCACCCACCCCGTGGGGCTCCAAGATGCCCTTTGGGGAAGTGTGATGTCGAATCCA
GCAGTAGCTGCGGCTGGGTACATGGCGTCTGTTTCTCAGCCAGCGGGAGCCGCGTGGCCTGGGTAAAGCCACGACA
GCACCGTCTGCTGGCTGATGCCGACAAGAAGATGGCCGTCGCGACTCTGGCCTCTGAAACACTACCACTGCTGG
CGCTGACCTTCATCACAGACAACAGCCTGGTGGCAGCGGGCCACGACTGCTTCCCGGTGCTGTTACCTATGACG
CCGCCCGGGGATGCTGAGCTTCGGCGGGCGGCTGGACGTTCTTAAGCAGAGCTCGCAGCGTGGCTTGACGGCCC
GCGAGCGCTTCCAGAACCTGGACAAGAAGGCGAGCTCCGAGGGTGGCACGGCTGCGGGCGCGGGCCTAGACTCGC
TGCACAAGAACAGCGTCAGCCAGATCTCGGTGCTCAGCGGCGGCAAGGCCAAGTGTGCGAGTTCTGCACCACTG
GCATGGATGGCGGCATGAGTATCTGGGATGTGAAGAGCTTGGAGTCAGCCTTGAAGGACCTCAAGATCAAATTGAC
CTGTGAGGAATATGTTGCCCTTCATCCTAACTGCTGGGGAAGCGGGGAGAGGGTCAAGGAGGCTAATGGTTGCTT
TGCTGAATGTTTCTGGGGTACCAATACGAGTTCCCATAGGGGCTGCTCCCTCAAAAAGGGAGGGGACAGATGGGG
AGCTTTTCTTACCTATTCAAGGAATACGTGCCTTTTCTTAAATGCTTTCATTTATTGAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 2349

MAYHSFLVEPISCHAWNKDRTQIAICPNNHEVHIYEKSGAKWTKVHELKEHNGQVTGIDWAPESNRIVTCGTDRN
AYVWTLKGRTWKPTLVILRINRAARCVRWAPNENKFAVGSGSRVISICYFEQENDWWVCKHIKKPIRSTVLSLDW
HPNNVLLAAGSCDFKCRIFSAYIKEVEERPAPTPWGSKMPPGELMFESSSSCGWVHGVCFSASGSRVAWVSHDST
VCLADADKKMAVATLASETLPLLALTFITDNSLVAAGHDCFPVLFTYDAAAGMLSFGGRLDVPKQSSQRGLTARE
RFQNLDDKKASSEGGTAAGAGLDSLHKNSVSQISVLSGGKAKCSQFCTTGMDGGMSIWDVKSLESALKDLKIK

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FIGURE 2350

CAGCTTTCTCTCCTTTGAAAACACTAAGAATAATGTCACCTGCATCAGTTTTTACTAGAGCCAATCACCTGTCATG
CCTGGAACAGGGATCGTACTCAGATTGCCCTCAGTCCCAATAATCACGAAGTGCACATCTATAAGAAGAACGGGA
GCCAGTGGGTGAAAGCTCATGAACTCAAGGAGCACAACGGACACATCACAGGTATTGACTGGGCTCCCAAGAGCG
ACCGCATTGTCACTTGTGGGGCAGACCGCAATGCCTATGTCTGGAGTCAGAAAGATGGTGTGTTGGAAGCCAACCC
TGGTGATCCTGAGAAATTAATCGCGCAGCTACTTTTGTGAAGTGGTCCCCCTAGAGAACAAATTTGCTGTGGGAA
GTGGAGCACGACTCATTTCTGTTTGTACTTTGAGTCTGAAAATGACTGGTGGGTGAGCAAGCACATTAAAAAGC
CGATTCGCTCCACAGTCCTCAGCTTGGATTGGCATCCCAACAACGTTTTGCTGGCAGCAGGATCATGTGACTTCA
AATGCAGAGTGTTTTCTGCCTACATTAAAGAAGTGGATGAAAAGCCAGCCAGCAGCCCTGGGGCAGCAAGATGC
CTTTTGGGCAGCTGATGTCAGAGTTTGGTGGCAGTGGCACTGGTGGCTGGGTCCACGGGGTAAGCTTCTCTGCCA
GTGGGAGCCGCTGGCTGGGTGAGCCACGACAGCACCGTGTCTGTTGCTGATGCCTCAAAAAGTGTGCAGGTCT
CGACTCTGAAGACAGAGTTCCTGCCGCTCCTAAGTGTGTCAATTTGTCTCAGAGAACAGCGTCGTGGCTGCTGGCC
ATGACTGCTGCCCAATGCTCTTTAACTACGATGACCGCGGCTGCCTGACCTTCGTCTCCAAGTTAGATATTCCAA
AACAGAGCATCCAACGCAACATGTCTGCCATGGAACGCTTCCGCAACATGGACAAGAGAGCCACAACCTGAGGACC
GCAACACGGCCTTGGAGACGCTGCACCAGAATAGCATCACTCAAGTCTCTATTTATGAGGTGGACAAGCAAGATT
GTCGCAAATTTTGCCTACTGGCATCGATGGAGCCATGACAATTTGGGATTTCAAGACCCTCGAGTCTTCCATCC
AGGGCCTCCGGATAATGTGAAGCTGAGTG

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FIGURE 2351A

CTCCTCTGCTCCTCGAAGAAGGCCAGGGCGGCGCTGCCGCAAGTTTTGACATTTTCGCAGCGGAGACGCGCGCGG
GCACCTCTCGGGCCGACGGCTGCGGCGGCGGCCGACCCCTCCAGAGCCCTTAGTCGCGCCCCGGCCCTCCCGCTGC
CCGGAGTCCGGCGGCCACGAGGCCAGCCGCTCCTCCCGCGCTTGCTCGCCCCGGCGGCCGAGCCATGTCCCGG
GGGCCCCGAGGAGGTGAACCGGCTCACGGAGAGCACCTACCGGAATGTTATGGAACAGTTCAATCTGGGCTGCGA
AATTTAATAAACCTGGGGAAAAATTATGAGAAAGCTGTAACGCTATGATCCTGGCAGGAAAAGCCTACTACGAT
GGAGTGGCCAAGATCGGTGAGATTGCCACTGGGTCCCCCGTGTCAACTGAACTGGGACATGTCTCATAGAGATT
TCAAGTACCCACAAGAACTCAACGAGAGTCTTGATGAAAATTTAAAAAATTCACAAAGAGATTATCCATGAG
CTGGAGAAGAAGATAGAATTGACGTGAAATATATGAACGCAACTCTAAAAAGATACCAAACAGAACACAAGAAT
AAATTAGAGTCTTTGGAGAAATCCCAAGCTGAGTTGAAGAAGATCAGAAGGAAAAGCCAAGGAAGCCGAAACGCA
CTCAAATATGAACACAAAGAAATTGAGTATGTGGAGACCGTTACTTCTCGTCAGAGTGAAATCCAGAAATTCATT
GCAGATGTTTGCAAAGAGGCTCTGCTTGAAGAGAAGAGGCGCTTCTGCTTTCTGGTTGATAAGCACTGTGGCTTT
GCAAACACATACATTATTATCACTTACAGTCTGCAGAACTACTGAATTCGAAGCTGCCTCGGTGGCAGGAGACC
TGTTGTTGATGCCATCAAAGTGCCAGAGAAAATCATGAATATGATCGAAGAAATAAGACCCCCAGCCTCTACCCCC
GTGTCTGGAACCTCTCAGGCTTCACCCATGATCGAGAGAAGCAATGTGGTTAGGAAAGATTACGACACCCCTTTCT
AAATGCTCACCAAAGATGCCCCCGCTCCTTCAGGCAGAGCATATACCAGTCCCTTGATCGATATGTTTAATAAC
CCAGCCACGGCTGCCCCGAATTCACAAAGGTAATAATTCAACAGGTACTTCCGAAGATCCCAGTTTACAGCGA
TCAGTTTCGGTTGCAACGGGACTGAACATGATGAAGAAGCAGAAAGTGAAGACCATCTTCCCGCACACTGCGGGC
TCCAACAAGACCTTACTCAGCTTTGCACAGGGAGATGTCATCACGCTGCTCATCCCCGAGGAGAAGGATGGCTGG
CTCTATGGAGAACACGACGTGTCCAAGGCGAGGGGTTGGTTCCCGTCGTCTACACGAAGTTGCTGGAAGAAAAT
GAGACAGAAGCAGTGACCGTGCCACGCCAAGCCCCACACCAAGTGAAGCATCAGCACCGTGAACCTTGTCTGAG
AATAGCAGTGTGTCTATCCCCCACCAGCTACTTGAATGCTTGTCCATGGGGGCGAGTGCAGACAGGAGAGCA
GATTGGGCCAGGACGACATCCACCTTTAAGGCCCCAGCGTCCAAGCCGAGACCGCGGCTCCTAACGATGCCAAC
GGGACTGCAAAGCCGCCTTTTCTCAGCGGAGAAAACCCCTTTGCCACTGTGAACTCCGCCCCGACTGTGACGAAT
GATCGCTCGGCACCCATCATTCGATGAGAGGACAGCCAAGGACTCTCCCGGGCTCTCCGGTTCTCCCTTGCGGA
ATGATGGGCGCATCCTGTCTGCCAGTGCTGACGGTCGGGAAGCTTCAGTGGAGAGGCCTAACTCTAATGTGCGC
TGCTTAAGCAATCATGCTTCTCTGTTTACGTAGTTGGGTTGACAAGTTTCTGCCTTTAAGATAAATGAGTAAT
AGTCTAATGACCAGCTCAGCCATTTAAATATTTTCTTCTATTCTGTTCAAGAAACAGTAACTTGGTTTCAAT
CTTTACTGTATTTTTTAAATGAATTTTTCTTAAATACAGCCAGAATAAGGGATAGTCTATGCTTTCAGGACTG
GCTTCTGCACCTGATATGAATGAGACCAGTTTTATTTATAAAGCATGTGCTCTTAATAGCATTATGTCTAAAG
AAGATATCACGTAAGTTTGCATCTTAGCATGCAATCATATTTAAGCAATATAAATTATGAAAATACTATATA
AATGTAATTTAACTTAAATGTTTAAAGTGTAGAGCTCCAGAGATGGAGAAACCCCAACCTCCCTCCAACACG
CCAGAGCTGTAGAGTGCTAAGACGCTTTGCCTGCCCTTATCACAGCCACACGTAGCACTCGACGAAATCTCCTCC
GAGAGCTCCTTTCTTGGTAGTTAGGAGTCGCCAACGGATTGCTGCACACGGCCCATCCAGGACACAGGCTGG
GCGTCGGAGTCACGGCTCCTTGTGTTCTCACTCAGTAGTTGGCCAAAGCTGCATCCATTACCAGTACACTCAAA
CTGCTCGGGGTCCTGGTTTCTCCGTGTTTGAATCAGGTACAGACTCTCAAAGGATACGTGTAAAGCCAGGATGAC
CTCTGGTGCTGGAGAAGGGCGGGTTTTTCAGCCTAGCAGCCATGATGCCCTCGGAACCTGGCCCTATGGTATGG
ATGTGAGGACTACGCACTGGCTGCCCTGAGCCCGGGGCTGGAATCATCTTTGGCTGCCAAGGATCTGGACCTAT
TTTGGAGTGGAGAGTCATGGTTAAATTTCCAGCCCGGCCAGGTACGGGAATCCAGCATTTTGTGAGGCCGAG
GCAGGGGATCACCTGAGGTCAGGAGTCTCTACTAAAAATACAAAAATTAGACAGGTGTGGTGGTGGGCGCCACT
CAGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGCAGAGGTTGCAGTGAGCCAGATCATGCTGCTGCACT
CCAGCCCGGCCGCTCACCGTGTGTGTTGCTGGGTGCTGGGGCTGTGACTTATCCCTCTCCTTTAGCCTTGCCAT
AAGTGTAGTATCCTATGAGGCTGAGATTGGGAAGGTTACATGCAGGTAAGCCAGTGAGCGTGCCGATGCTTCA
GGCTCCTTCCAGCCAGGTCCAGCAGTGTACCATTGCTTCTCTGCGGAGGACAAACAGGCACCCCCACCATGA
AGGGGCTGCAGGCACCATGAACATGTTAACAACCCAGTCTGTACTACAGAAAGGGCTGCAGCCACATGAGAAT
TCAGTCCACACAAGCCCCATGGCCGTGTTCCCCACTTCAGCCACAGGGCTCAGGGAGCCCCATCTGGCGCTAAGG
GGAAGTGTGGGGTGTGGGTGACACCTGGCCTTTGGCGTTCTGCCTTGGGGAGGTTTTCTGGTTTTGTACGGGGT
GGAAGAATAGGACCTGGGGGTCTCGGATGCAACCTGCAGACCCCGTGCTCACCAACCCAGGTTCTGCCTCCC
AGACCAGAACGGGCATGGCCTGGTCTTGGCACCGAGGTGCCTGCTCTGTAAATATCAAGGGATTACAACTTTAA

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FIGURE 2351B

TAATAAAGCAGAACTTG

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FIGURE 2352

GGCGGTTGGCAAGAACAAGCGCCTTACGAAAGGCGGC AAAAGGGAGCCAGAAGAAAGTGGTTGATCCATTTTC
TAAGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTTCAGTATAAGAAATATTGGAAAGACGCTCGTCACCAG
GACCCAAGGAACCAAAATTGCATCTGATGGTCTCAAGGGTCGTGTGTTTGAAGTGAGTCTTGCTGATTTCAGAA
TGATGAAGTTGCATTTAGAAAATTCAGGCTGATTACTCTTCGTCTGTTCTGTGTTGGTTTTACTAAAAACGCAA
CAATCAGATACGGAAGACCTCTTATGCTCAGCACCAACAGGTCCGCCAAATCCGGAAGAAGATGATCGAAATCAT
GACCCGAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTGATTCCAGACAGCATTGGAAAAGACAT
AGAAAAGGCTTGCCAGTCTATTTATCCTCTCCATGATGTCTTCGTTAGAAAAGTAAAAATGCTGAAGAAGCCCCAA
GTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGTAGTTCTGGAAAAGCCACTGGGGACGAGACAGG
TGCTAAAGTTGAACGAGCTGATGGATATGAACCACCAGTCCAAGAATCTGTTTAAAGTTCAGACTTCAAATAGTG
GCAATAAAGAGTGCTATTTGTGAAAAAAAAAACAAAAAAAAA

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FIGURE 2353A

CGCAGTGTGCTGGGGCATTGCCTGTGACAACCAGGTCTACGTGTATGTGTGTGCCAGCGATGTCCCCATCCGCC
GCCGAGAGGAGGCCATATGAGAATCAGCGCTGGAATCCCATGGGCGGCTTCTGTGAGAAGCTCCTGTGAGTGACC
GCTGGGGGTGGAGTGACGTGAGTGGGCTCCAGCACCGGCCGCTGGACAGGGTGGCACTGCCCTCGCCGCACTGGG
AGTGGGAGTCTGACTGGTACGTGGATGAGAATTTTGGAGGTGAACCCACTGAGAAAGGGGGGTGGACGTACGCCA
TCGACTTTCCCGCCACCTACACGAAAGACAAGAAGTGAATTTCTGTGTGCGGCGCCGGAAGTGGATCCGGTACA
GGAGATACAAGTCCCGGGACATCTGGGCCAAGATCCCTCGAAGGATGACCCCAAGGAGCTGCCGACCCCTTCA
ACGACCTCTCTGTAGGGGGCTGGGAGATCACGGAGGAGCCTGTGGGCCGCTGTCTAGTGTGGGCTGTGTCTCTGC
AGGGCAAGGTGTGGTACAGAGAGGACGTACGCCACTCCAACCCCGAAGGGTCTCTGGTCCCTGTCTGGACACCC
CCGGGGAGGTGGTTAGATCAGCTGTGGGCCCCACGACCTCCTGTGGGCCCACTCTGGGAGGGACAGGCCCTGG
TCCGGGAAGGAATCAACAGGAGCAATCCCAAAGGAAGTTCTGGTCCATCGTGGAGCCTCTGGATCTGAAAACG
GGGTATGACATCTCGGTGGGAGTCAGCGTGGTCTGGGCTGTACCAAGGACTGGAAGGTGTGGTTCCGAAGAG
GCGTCAACTCTCACAATCCCTGCGGCACCAGTTGGATTGAGATGGTTGGTGAGATGACGATGGTGAACGTGGGAA
TGAACGACCAGGTGTGGGGCATTGGCTGTGAGGACCGAGCCGTGACTTCCGGCAGGGTGTACCCCCAGCGAGC
TCAGTGGGAAGACCTGGAAAGCCATCATCGCGGCCGAGAGTGTGACCGGTCACTCTGGCAGCTCGTCTAGTC
TCCTCAGTGCCGGCTGCTTCTTCGGTGATGAGGTGAGGGGTAGTGGCGAGTCTGCCCCAGCGACACCGATGCCT
CCTCGGAAGTCGAGAGACCAGGGCCTGGCCAGATTCTCCCTGCAGAACCTCTAGACGATTCCAAGAATGCCACAG
GGAATCAGCCTCAGGCCTGGGGGCTGGCAGGACCGCAGAAGATACCGTGGGAAGATGCCTGCCAGCCGAGGGCA
GCAGGGAGGCCAGACCCAAACGACACCCCGGCCCGGCCCCACCCCGGCCGAGCTGCCCTGGACCAATATTGACC
TCAAGGAGGCCAAGAAAGTGCCAGCCACTCGGCCGCTGGCTTCCCCGAGACCACAGCCTCTCTCTCTGGGGC
TCCTCCCACTGGGCTTGGAGGAGCCGTATGGGGTGGATGACCACCCGCTGTGGGCTGGGTGTGGGAGGCGGCT
GCGTGGTGGAGGCATGTGCCATGCCCAGATGGTTCACTGTCCAGGCGGGCCTGTCTCTCTCGGTACACATGCTGT
CCCTGTCCATCACGCCGGCCAGACCGCTGCCTGGAGGAAGCAGATCTTCCAGCAGCTACGGAAAGGACCAAGC
GGGAGCTGGGAACTTACAGACTACGAGCAGGCCGTGGAGCAGTCGGTGTGGGTGAAGACCGGGGCGCTGCAGT
GGTGGTGGCACTGGAAGCCCCACAAGTGGGTGGACGTGCGCTTGGCCCTGGAGCAGTTCACGGGGCAGCAGCGG
TCCGGGACAGCATCCTCTTCTATCTACTATGTGGTCCACGAGGAGAAGAAGTACATCCACATATTCTGATGAGG
TGGTGGCGCTGGTCCCAGTGTGAACGAGACCAAGCACTCCTTTGCCCTGTACACCCCTGAGCCGACACGGCAGA
GGTGGCCGGTGCCTGTGGCTGCTGCCACCGAGCAGGACATGAATGACTGGCTCGCCCTGCTCAGCTGTCTTGGCT
GCGAGAGCCGGAAGGTGCAAGGGCCGCGCTCCCCGAGGCCATCTGGTCCATCACCTGCAAGGGGACATCTTCG
TGAGCGAGCCAGCCAGACCTGGAGGCCACGAGCACCCTGCCCTGCGACCAGATGTTTTGGCGGCAGATGG
GAGGCCACCTGCGGATGGTGGAGGCCAACAGCCGGGGCGTGGTGTGGGGCATCGGCTATGACCACACGGCCTGGG
TATACACAGGCGGCTATGGAGGCGGCTGCTTCCAAGGCTGGCCAGCAGCACCAGTAACATCTACACGCAGTCAG
ACGTGAAGTGTGTTACATCTATGAGAACCAGCGCTGGAACCCGTCACAGGCTACACCAGCAGGGGTCTGCCCA
CGGACCGGTACATGTGGAGCGATGCCTCGGGGCTGCAGGAGTGCACGAAGGCTGGCACGAAGCCCCCGTCCCTGC
AGTGGGCTGGGTTTCCGACTGGTTCTGGATTTCAGCGTTCCGGGGGACCGGACCAGGAGGGGTGGCAGTATG
CCAGCGACTTCCCTGCCTCATACCATGGGTCCAAAACGATGAAGGATTTTGTGAGGAGGAGGTGCTGGGCCAGAA
AATGCAAGCTGGTGACCAAGTGGGCCCTGGCTGGAGGTGCCCCCATCGCCCTCAGGGACGTGTCCATCATCCCGG
AGAGCCCGGGTGCCGAGGGGAGTGGGCACAGCATCGCCCTCTGGGCCGTACGCGACAAGGGGGATGTGCTGTGCC
GCCTGGGCGTGTGCGAGCTCAACCCCTGCGGGCTCCTCCTGGCTGCACGTTGGCACCAGCAGCCCTTCGCTCCA
TCTCCATCGGGGCTGTGCTACAGGTGTGGGCCGTGGCAAGGGACGGCTCCGCTTCTACCGGGGATCCGTGTACC
CCTCGCAGCCAGCCGTGACTGCTGGTACCACATCCCGTCCCCACCGAGACAGAGGCTGAAGCAGGTGTCCGCGG
GGCAGACGTCCGGTGTATGCCCTGGATGAGAATGGAAACCTGTGGTATCGCCAAGGGATCACGCCCAGCTACCCGC
AGGGCTCCAGCTGGGAGCACGTGTCCAACAACGTGTGCCGAGTGTCCGTGGGGCCCTGGACCAGGTCTGGGTGA
TCGCCAACAAAGTGCAAGGCAGCCACAGCCTGAGCCGGGGGACAGTGTGTATCGCACCGGCGTGCAGCCTCACG
AGCCCAAGGGCCACGGCTGGGACTACGGCATCGGGGGAGGCTGGGACCATATCTGTGTCGGGGCCATGCCACCA
GGGCCCCCGGAGCTCGTCCAGGAGCAGGAGCCGAGTGCCCCACAGAGGCCCATGGCCCCGTGTGCTGTGAG
GCCCCCCACACACCTACATGCAAGGACGGTGCCAGTTTGGGGGATCAAGGCTGAGCCATTCTGTGCTGGAGT
GTGCACCGTGGGAGCAATGTGGCCAGGTGGACTCAGGAGGGAACCTGGCCCCAAGGCTGCGGCCACTTCAGAGG
CACTGGCTGAGACGGCCCTGAAATGTGAAGTCCGCGGACACTCCACACGTGTCCCCGTGTGCGAGGAGTCCCG

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FIGURE 2353B

GGGTGTGGGGCATGGGGTGGGGCTGCACCTCCCAGAGGCCCTCCACCCCTCCCTTCCCCTCTCCCTTCTGCCT
TTCCAGGACTAGAACCGGGAACCTGGAGCCCTCCGGGAACGCCGGCCCTGGGGCAGCAGAGCCAGGATGGAGCCC
TCCTGAGCTGGCATCTCAGACAGCACCCGGGCCCCGCCACCCCTCACCAAGAGAGATGGCCATGGGGCTCAGGGCC
TCTTTACCATGTGCAGTGACCATTCTCAGAGCAGGACTTGCAAAGAGGCTTTAATTTCAAAGTGAAGGAAGGA
GGCCAGGCGCCGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCAGATCACCTAGGTCAAGA
GTTTCAAACCAGACGGGCCAACATGGTGAAACCCCATCTCTGCTAAAAATACAAAAAAAAAAAAATTAGCTGGGC
ATGGTGGTGGGTGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGTTTGAACCCGGGAGGCGGAG
GCTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGGCGACAGAGACTCCATCTC

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FIGURE 2354

MGWGCTSORPLPPFPSPLPFAFFGLEPGTWSPPGTPALGQQSQDGALLSWHLRQHFGPPPLTKRDGHGAQGLFTM
CSDHFSEQDLQRGFNFKSEGRRPGAVAHACNPSTLGG

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FIGURE 2355

AAACTTCCCGCACGCGTTACAGGAGCCAGGTCGGTATAAGCGCCAGCGGCTCGCCGCCCCGTCAAGCTGTCCACA
TCCCTGGCCTCAGCCCGCCACATCACCTGACCTGCTTACGCCCAGATTTTCTTCAATCACATCTGAATAAATCA
CTTGAAGAAAGCTTATAGCTTCATTGCACCATGTGTGGCATTGTTGGGCGCTGTTTGGCAGTGATGATTGCCTTTCT
GTTCAAGTGTCTGAGTGCTATGAAGATTGCACACAGAGGTCCAGATGCATTCCGTTTTGAGAATGTCAATGGATAC
ACCAACTGCTGCTTTGGATTTTACCAGTTGGCGGTAGTTGACCCGCTGTTTGGGAATGCAGCCAATTCGAGTGAAG
AAATATCCGTATTTGTGGCTCTGTTACAATGGTGAATCTACAACCATAAGAAGATGCAACAGCATTGTTGAATTT
GAATACCAGACCAAAGTGGATGGTGAGATAATCCTTCATCTTTATGACAAAGGAGGAATTGAGCAAACAATTTGT
ATGTTGGATGGTGTGTTTGCATTTGTTTACTGGATACTGCCAATAAGAAAGTGTTTCTGGGTAGAGATACATAT
GGAGTCAGACCTTTGTTTAAAGCAATGACAGAAGATGGATTTTTGGCTGTATGTTTCTGAGAGCTAAAGGTCTTGT
ACATTGAAGCACTCCGCGACTCCCTTTTAAAGTGGAGCCTTTTCTTCTGGACACTATGAAGTTTGGATTTA
AAGCAAATGGCAAAGTTGCATCCGTGGAAATGGTTAAATATCATCACTGTCGGGATGAACCCCTGCACGCCCTC
TATGACAATGTGGAGAACTCTTCCAGGTTTTGAGATAGAACTGTGAAGAAACCTCAGGATCCTTTTTAAT
AATGCTGTAAAGAAACGTTTGATGACAGACAGAAGGATTGGCTGCCTTTTATCAGGGGGCTTGGACTCCAGCTTG
GTTGCTGCCACTCTGTTGAAGCAGCTGAAAGAAGCCCAAGTACAGTATCCTCTCCAGACATTTGCAATTGGCATG
GAAGACAGCCCCGATTACTGGCTGCTAGAAAGGTGGCAGATCATATTGGAAAGTGAACATTATGAAGTCTTTTT
AACTCTGAGGAAGGCATTACAGGCTCTGGATGAAGTCATATTTTCTTGGAACTTATGACATTACAACAGTTCGT
GCTTCAGTAGGTATGTATTTAATTTCCAAGTATATTCGGAAGAACACAGATAGCGTGGTGATCTTCTCTGGAGAA
GGATCAGATGAACCTTACGCAGGGTTACATATATTTTACAAGGCTCCTTCTCCTGAAAAAGCCGAGGAGGAGAGT
GAGAGGCTTCTGAGGGAACCTCTATTTGTTTGATGTTCTCCGCGCAGATCGAACTACTGCTGCCCATGGTCTTGAA
CTGAGAGTCCCATTTCTAGATCATCGATTTTCTTCTTACTTGTCTCTGCCACCAGAAATGAGAATTCCAAAG
AATGGGATAGAAAAACATCTCCTGAGAGAGACGTTTGAGGATTCCAATCTGATACCCAAAGAGATTCTCTGGCGA
CCAAAAGAAGCCTTCAGTGATGGAATAACTTCAGTTAAGAATTCCTGGTTTAAAGATTTTACAGGAATACGTTGAA
CATCAGGTTGATGATGCAATGATGGCAAATGCAGCCCAGAAATTTCCCTTCAATACTCCTAAAACCAAAGAAGGA
TATTACTACCGTCAAGTCTTTGAACGCCATTACCCAGGCCGGGCTGACTGGCTGAGCCATTACTGGATGCCCAAG
TGGATCAATGCCACTGACCCTTCTGCCCCGACGCTGACCCACTACAAGTCAGCTGTCAAAGCTTAGGTGGTCTTT
ATGCTGTAATGTGAAAGCAAATATTTCTTCGTGTTGGATGGGGACTGTGGGTAGATAGGGGAACAATGAGAGTCA
ACTCAGGCTAACTTGGGTGTGAAAAAATAAAAGTCCTAAATCT

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FIGURE 2356

MCGIWALFGSDDCLSVQCLSAMKIAHRGPDAFRFENVNGYTNC CFGHRLAVVDPLFGMQPIRVKKYPYLWLCYN
GEIYNHKKMQQHFEFEYQTKVDGEIILHLYDKGGIEQTICMLDGVFAFVLLDTANKKVFLGRDTYGVRPLFKAMT
EDGFLAVCSEAKGLVTLKHSATPFLKVEPFLPGHYEVLDLKPNGKVASVEMVKYHHRDEPLHALYDNVEKLFPG
FEIETVKNNLRILFNNAVKKRLMTDRRIGCLLSGGLDSSLVAATLLKQLKEAQVQYPLQTFAIGMEDSPDLLAAR
KVADHIGSEHYEVLFNSEEGIQALDEVIFSLETYDITTVRASVGMYLISKYIRKNTDSVVIFSGEGSDELTQGYI
YFHKAPSPEKAEESERLLRELYLFDVLRADRTTAAHGLELRVPFLDHRFSSYYLSLPPEMRIPKNGIEKHLRE
TFEDSNLIPKEILWRPKEAFSDGITSVKNSWFKILQEYVEHQVDDAMMANAAQKFPFNTPKTKEGYYYRQVFERH
YPGRADWLSHYWMPKWINATDPSARTLTHYKSAVKA

[illegible]

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FIGURE 2358

MCGIWALFGSDDCLSVQCLSAMKIAHRGPDAFRFENVNGYTNC CFGHRLAVVDPLFGMQPIRVKKYPYLWLCYN
GEIYNHKKMQQHFEFEYQTKVDGEIILHLYDKGGIEQTICMLDGVFAFVLLDTANKKVFLGRDTYGVRPLFKAMT
EDGFLAVCSEAKGLVTLKHSATPFLKVEPFLPGHYEVLDLKPNGKVASVEMVKYHHRDEPLHALYDNVEKLFPG
FEIETVKNNLRILFNNAVKKRLMTDRRIGCLLSGGLDSSLVAATLLKQLKEAQVQYPLQTFAIGMEDSPDLLAAR
KVADHIGSEHYEVLFNSEEGIQALDEVIFSLETYDITTVRASVGMYLISKYIRKNTDSVVIFSSEGSDELTOGYI
YFHKAPSPEKAEESERLLRELYLFDVLRADRTTAAHGLELRVPFLDHRFSSYYLSLPPEMRIPKNGIEKHLRE
TFEDSNLIPKEILWRPKEAFSDGITSVKNSWFKILQEYVEHQVDDAMMANAAQKFPFNTPKTEGYYYRQVFERH
YPGRADWL SHYWMPKWINATDPSARTLTHYKSAVKA

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FIGURE 2359

CCTGGCTGGGACGGAGTTGCACCACAAGTACAATTAGTTTCAGTTTTGTTTCTTTTCCAGGCACCCAGCAACGG
CGGCTCCAGGCCTCAGGCCCCCTCACCATCCTAGAGGTCAAGATCAGCTCTGGCTAGTTCTCACAGGTCTGACC
CAACAAGTAGCACTGACATTTTTACGTTTGCTGGATGTACACACGGAAGTGGAGGAGGAGGAGGAGAAGGAGGAG
GGCAGCTCCTTAGCTCAAGAGCAAGTGGCCCAAGGCCTCAGAAGACTAGAAGGAAGTTCCTGGCCATTACAGCATG

GTTTCCACGGGTCTCGCCCTCCCTCCTGGAGGCCCTGAGCAGCGACTTCCTGGCCTGTAAATCTGCCTGGAG
CAGCTGCGGGACCCAAAGACACTGCCCTGCCTGCATACCTACTGCCAAGACTGCCTGGCACAGCTGGCGGATGGC
GGCCCGTCCGCTGCCCGAGTGCCGCGAGACAGTGCCCTGTGCCGCCGAGGGTGTGGCCTCCTTCAAGACCAAC
TTCTTCGTCAATGGGTGCTGGACCTGGTGAAGGCCCGGCCCTGTGGAGACCTGCGTGCCGGGAAGCCAGCCTGT
GCCCTGTGTCCCCTGGTGGGTGGCACCAGCACCGGGGGGCCGCCACGGCCCGGTGCCTGGACTGTGCCGATGAC
TTGTGCCAGGCCTGTGCCGACGGGCACCGCTGCACCCGCCAGACCCACACCCACCGCTGGTGGACCTGGTGGGC
TACAGGGCCGGGTGGTATGATGAGGAGGCCGGGAGCGCCAAGCGGCCAGTGTCCCCAGCACCCCGGGGAGGCA
CTGCGCTTCTGTGCCAGCCCTGCTCACAGTTGCTGTGCAGAGAGTGCCGCCCTAGACCCCCACCTGGACACCCC
TGCTTGCTCTGGCTGAAGCTGTGCGTGCCCGGAGGCCGGCCCTGGAGGGACTGCTGGCCGGTGTGGACAATAAC
CTGGTGGAGCTGGAGGCAGCGCGGAGGGTGGAGAAGGAGGCGCTAGCCCGGCTGCGGGAGCAGGCGGCCCGGTG
GGGACTCAGGTGGAGGAGCGGCTGAGGGCTCCTCCGGGCCCTGCTGGCCAGAGCAGGAGGTGTGGGGCAG
CTACGAGCCACGTGGAGGCTGCCGAAGAAGCTGCTCGGGAGAGGCTGGCGGAGCTTGAGGGCCGGGAGCAGGTG
GCCAGGGCCGAGCCGCCCTTCGCCCCGCCGGTACTCAGCCTGGGGCGAGAGGCCGAGATCCTCTCCCTGGAAGGG
GCGATCGCACAGCGGCTCAGGCAGCTGCAGGGCTGCCCTGGGCACACAGGCCCGGCCCTGCCTGTCTCCACAG
CTGGAGCTCCATCCTGGGCTCCTGGACAAGAACTGCCACCTTCTTCGGCTGTCTTTGAGGAGCAGCAGCCCCAG
AAGGATGGTGGGAAAGACGGAGCTGGTACCCAGGGAGGTGAGGAGAGCCAGAGCCGGAGGGAGGATGAGCCGAAG
ACTGAGAGACAGGGTGGAGTCCAGCCCCAGGCTGGAGATGGAGCCAGACCCCAAAAGAGGAAAAAGCCAGACA
ACCCGAGAAGAGGGAGCCAGACCTTGGAGGAGGACAGGGCCAGACACCCACGAGGATGGAGGACCCAGCCC
CACAGGGGTGGCAGACCCAACAAGAAGAAAAGTTCAAAGGCAGGCTCAAGTCAATTTCCCGGAGCCAGCCCA
GCCCTGGGGCCGAATCTGGACGGCTCTGGCCTCCTCCCCAGACCCATCTTTTACTGCAGTTTCCCCACGCGGATG
CCTGGAGACAAGCGGTCCCCCGGATCACCGGGCTCTGTCCCTTCGGTCCCCGGGAGATCCTGGTGGCGGATGAG
CAGAACCGGGCACTGAAACGCTTCTCCCTCAACGGCGACTACAAGGGCACCGTGCCGGTCCCTGAGGGCTGCTCC
CCTTGACAGCTGGCCGCCCTGCAGAGCGCGGTGGCCTTCTCCGCTAGCGCACGGCTCTATCTCATCAACCCCAAC
GGCGAAGTGCAGTGGCGCAGGGCCCTGAGCCTCTCCAGGCCAGCCACGCGGTGGCGGCACTGCCTAGCGGGGAC
CGCGTGGCTGTACAGCTGGCGGGCCACGTGGAGGTGTACAATATGGAAGGCAGCCTGGCCACCCGGTTCATTCT
GGAGGCAAGGCCAGCCGGGGCCTGCGGGCGCTGGTGTCTTGACCACAGCCCCAGGGGCATTTCTGGGGTCTG
GACTGGCAGCAGAATAGTGTGTAATCTGTGATGGGCTGGGCCAGGTGGTTGGGGAGTACAAGGGGCCAGGCCTG
CATGGCTGCCAGCCGGGCTCCGTGTCTGTGGATAAGAAGGGCTACATCTTTCTGACCTTCGAGAAGTCAACAAG
GTGGTGATCCTGGACCCGAAGGGGTCCCTCCTTGAGACTTCTTGACAGCCTACCACGGCCTGGAAAAGCCCCGG
GTTACCACCATGGTGGATGGCAGGTACCTGGTCTGTCCCTCAGTAACGGGACCATCCACATCTTTCGGGTCCGT
TCTCCGGACAGTTAAAGGGGCTAGGACTAGGGTGAGAGGGAGTGGGGAGGGAGAGGGCAGGAAGGAGGCAGAGCT
GTCCGTGGGAGGTGGAGGCCGAGGACATTTTCTGAAGGGCAGGGGTGGCAACTTTTCAACATGGAGTGCCAAA
CTGCTAACCCGTCTTCTAGTGTGTGAGAATAGGGACCAAGGTGGTGGCGTGACCTTAACCTCAGAAAGCAGAGGA
GGCAGGTGGGTGGAGGGGGATGCTGGGAGTTACCTGCCTCTTGCTTTTGTGGGTGGCTGCCACCACCGCC
GCTGCTATATAGTTTtaggtttctgaggtttgtgagcctgtcctgtcttgcttttgtgggtggctgctgccaccacgccc
GTAGCCGAGGGAGAGTCTTGGGGCCAAGAAGGGCCAGGGTGGGTGAGCGTGTGCACTGTGGAACAGAGCTGAG
ACCCCGGCCCCCTTGGACTGGCACAGGGTCTTACAGAGTCAGAGGAGCCTGAGATTTCGAATGGGCAGTGAAT
GGCCTCTTCTGCCAGCCACAGGCAGGATGCTCCTTGATCAGGCATCCCCCGGCGGTAGTACAGGGTGAGCTTGC
AGGAGGGTCTGCAAGTGCAGACAGCAGCTGGGGCCAAAGAGGTGTAGGTTCAAAGGCTGCGAAGAGAATAGGCT
ACTGGAACCAACCAACAGAAATTCAGTCCAAAATCCACATCTCCATCGCTTCTCAGCCTTTTGCTAAG
ATTAAGTATTAACCAACCAACAGGCTCTGCCAGGCGCAGTGGCTCATGCCTATAATCCCGGCACTTTGGGAGTCT
GTGGCAGGAGGATTGCTTGAGGCCAGGAGTTTGAGACCAGCCTGGGCAACATAGCGAGACCCCATCTTACAAAA
GATTAAAAATTAGCTGCGTGTAGTAGCATATGCCTTTCAACGTAGCTACTCAGGAGGCTGAGGTGGGAGGATCCC
TTGAGCCGAGGAGTTTgagctgcagtgagctatgatcgaccactgcattccagacccccatctcg

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FIGURE 2360

MVSHGSSPSLLEALSSDFLACKICLEQLRAPKTLPCCLHTYQDCLAQLADGGVRVRCPECRETVPVPPEGVASFKT
NFFVNGLLDLVKARACGDLRAGKPACALCPLVGGTSTGGPATARCLDCADDLCQACADGHRCTRQTHTHRVDLV
GYRAGWYDEEARERQAAQCPQHPGEALRFLCQPCSQLLCRECRDPHLDHPCLPLAEAVRARRPGLEGLLAGVDN
NLVELEAARRVEKEALARLREQAARVGTQVEEAAEGVLRALLAQKQEVLGQLRAHVEAAEEAARERLAELEGREQ
VARAAAFARRVLSLGREAEILSLEGAIAQRLRQLQGCPWAPGPAPCLLPQLELHPGLLDKNCHLLRLSFEEQQP
QKDGGKDGAGTQGGEESQSRREDEPKTERQGGVQPQAGDGAQTPKEEKAQTTREEGAQTLEEDRAQTPHEDGGPQ
PHRGGRPNNKKKFKGRLKISREPSPALGPNLDGSGLLPRPIFYCSFPTRM PGDKRSPRITGLCPFGPREILVAD
EQNRALKRFSLNGDYKGTVPVPEGCSPCSVAALQSAVAFSASARLYLINPNGEVQWRRALSLSQASHAVAALPSG
DRVAVSVAGHVEVYNMEGSLATRFIPGGKASRGLRALVFLTTSPQGHFVGSWQQNSVVICDGLGQVVGEYKGP
LHGCQPGSVSVDKKGYIFLTLREVNVVILDPKGSLLGDFLTAYHGLEKPRVTTMVDGRYLVVSLSNGTIHIFRV
RSPDS

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FIGURE 2361

GAATTCTGCAGCTCAGCAGCCGCCGCCAGAGCAGGACGAACCGCCAATCGCAAGGCACCTCTGAGAACTTCAGG
ATGCAGATGTCTCCAGCCCTCACCTGCCTAGTCTGGGCTTGGCCCTTGCTTTGGTGAAGGGTCTGCTGTGCAC
CATCCCCATCTACCTGGGCCACCTGGCCTCAGACTTCGGGGTGAGGGTGTTCAGCAGGTGGCGCAGGCCTCC
AAGGACCGCAACGTGTTTTCTCACCTATGGGGTGGCTCGGTGTTGGCCATGCTCCAGCTGACAACAGGAGGA
GAAACCCAGCAGCAGATTCAAGCAGCTATGGGATTCAAGATTGATGACAAGGGCATGGCCCCCGCCCTCCGGCAT
CTGTACAAGGAGCTCATGGGGCCATGGAACAAGGATGAGATCAGCACCACAGACGCGATCTTCGTCCAGCGGGAT
CTGAAGCTGGTCCAGGGCTTCATGCCCCACTTCTTCAGGCTGTTCCGGAGCACGGTCAAGCAAGTGGACTTTTCA
GAGGTGGAGAGAGCCAGATTATCATCAATGACTGGGTGAAGACACACAAAAAGGTATGATCAGCAACTTGCTT
GGGAAAGGAGCCGTGGACCAGCTGACACGGCTGGTGTGGTGAATGCCCTCTACTTCAACGGCCAGTGGAAGACT
CCCTTCCCCGACTCCAGCACCCACCGCCGCTCTTCCACAAATCAGACGGCAGCACTGTCTCTGTGCCCATGATG
GCTCAGACCAACAAGTTCAACTATACTGAGTTACCACGCCCGATGGCCATTACTACGACATCCTGGAAC TGCCC
TACCACGGGGACACCCCTCAGCATGTTTATTGCTGCCCCCTATGAAAAAGAGGTGCCTCTCTCTGCCCTCACCAAC
ATTCTGAGTGCCAGCTCATCAGCCACTGGAAAGGCAACATGACCAGGCTGCCCCGCTCTCGTTCTGCCCCAAG
TTCTCCCTGGGAGACTGAAGTCGACCTCAGGAAGCCCCCTAGAGAACCTGGGAATGACCGACATGTTTCAAGACAGTTT
CAGGCTGACTTCACGAGTCTTTCAGACCAAGAGCCTCTCCACGTGCGCGAGGCGCTGCAGAAAGTGAAGATCGAG
GTGAACGAGAGTGGCACGGTGGCCTCCTCATCCACAGCTGTCATAGTCTCAGCCCGCATGGCCCCCGAGGAGATC
ATCATGGACAGACCTTCTCTTTGTGGTCCGGCACAACCCACAGGAACAGTCCTTTTCATGGGCCAAGTGATG
GAACCCTGACCTTGGGGAAAGACGCCTTCATCTGGGACAAAACCTGGAGATGCATCGGGAAAGAAGAACTCCGAA
GAAAAGAAATTTTAGTGTTAATGACTCTTCTGAAGGAAGAGAAGACATTTGCCTTTTGTAAAGATGGTAAACC
AGATCTGTCTCCAAGACCTTGGCCTCTCCTTGGAGGACCTTTAGGTCAAACCTCCCTAGTCTCCACCTGAGACCT
GGGAGAGAAGTTTGAAGCACAACCTCCCTTAAGGTCTCCAAACCAGACGGTGACGCCTGCGGGACCATCTGGGGCA
CCTGCTTCCACCCGTCTCTCTGCCCACTCGGGTCTGCAGACCTGGTTCCTCACTGAGGCCCTTTGAGGATGGAAC
TACGGGGCTTACAGGAGCTTTTGTGTGCTGGTAGAACTATTTCTGTTCCAGTCACATTGCCATCACTCTTGTA
CTGCCTGCCACCGCGGAGGAGGCTGGTGACAGGCCAAAGGCCAGTGGAAGAAACACCTTTTATCTCAGAGTCCA
CTGTGGCACTGGCCACCCCTCCCCAGTACAGGGGTGCTGCAGGTGGCAGAGTGAATGTCCCCCATCATGTGGCCC
AACTCTCCTGGCCTGGCCATCTCCCTCCCCAGAAACAGTGTGCATGGGTATTTTGGAGTGTAGGTGACTTGTTT
ACTCATTGAAGCAGATTTCTGCTTCCTTTATTTTATAGGAATAGAGGAAGAAATGTCAGATGCGTGCCAGCT
CTTCACCCCCAATCTCTTGGTGGGGAGGGGTGTACCTAAATATTTATCATATCCTTGCCCTTGAGTGCTTGTTA
GAGAGAAAGAGAACTACTAAGGAAAATAATATTATTTAACTCGCTCCTAGTGTTCCTTTGTGGTCTGTGTACCC
GTATCTCAGGAAGTCCAGCCACTTGACTGGCACACACCCCTCCGGACATCCAGCGTGACGGAGCCACACTGCCA
CCTTGTTGGCCGCTGAGACCTCGCGCCCCCGCGCCCCCGCGCCCCCTCTTTTCCCCCTTGATGGAAATTGACC
ATACAAATTCATCTCTCTCAGGGGATCAAAAGGACGGAGTGGGGGGACAGAGACTCAGATGAGGACAGAGTGGT
TTCCAATGTGTTCAATAGATTTAGGAGCAGAAATGCAAGGGGCTGCATGACCTACCAGGACAGAACTTTCCCCAA
TTACAGGGTGACTCACAGCCGATTGGTGACTCACTTCAATGTGTCAATTCGGCTGCTGTGTGTGAGCAGTGGA
CACGTGAGGGGGGGGTGGTGAGAGAGACAGGCAGCTCGGATTCAACTACCTTAGATAATATTTCTGAAAACCTA
CCAGCCAGAGGGTAGGGCACAAGATGGATGTAATGCATTTGGGAGGCCAAGCGGGAGGATTGCTTGAGCCCA
GGAGTTCAAGACCAGCTGGGCAACATACCAAGACCCCGTCTCTTTAAAAATATATATATTTTAAATATACTTA
AATATATATTTCTAATATCTTTAAATATATATATATATTTTAAAGACCAATTTATGGGAGAATTGCACACAGATG
TGAAATGAATGTAATCTAATAGAAGC

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FIGURE 2362

MQMSPALTCLVLGLALVFGEGSAVHHPPSYVAHLASDFGVRVFQQVAQASKDRNVVFSPYGVASVLAMLQLTTGG
ETQQQIQAMGFKIDDKGMAPALRHLYKELMGPNKDEISTDAIFVQRDCLKLVQGFMPHFFRLFRSTVKQVDFS
EVERARFIINDWVKTHTKGMISNLLGKGAVDQLTRLVLVNALYFNGQWKTPFPDSSTHRRLFHKSDGSTVSVPM
AQTNKFNYTEFTTPDGHYYDILELPYHGDLSMFIAAPYEKEVPLSALTNILSAQLISHWKGNMTRLRLLVLPK
FSLETEVDLRKPLENLGMTDMFRQFQADFTSLSDQEPLHVAQALQKVKIEVNESGTVASSSTAVIVSARMAPEEI
IMDRPFLFVVRHNPTGTVLFMGQVMEP

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FIGURE 2363

GTGGGACGCGCCGAGCCGAGGCTGCAGGATGATGCGGTTCATGCTATTATTCAGCCGGCAGGGAAAAC TGCGGC
TGCAAAAATGGTACCTGGCCACTTCGGACAAGGAACGGAAGAAGATGGTGCGCGAGCTCATGCAGGTTGTCCTGG
CTCGAAAGCCCAAGATGTGCAGCTTCCTGGAGTGGAGGGACCTCAAAGTTGTCTATAAGAGATATGCCAGCCTCT
ACTTCTGCTGCGCCATCGAGGGCCAAGACAATGAGCTCATCACA CTGGAGCTGATCCACCGATACGTGGAGCTCT
TAGACAAATACTTTGGCAGTGTGTGCGAGCTGGACATCATCTTCAACTTTGAGAAGGCCTACTTCATCCTGGATG
AGTTTTTGATGGGGGGGATGTCCAGGACACCTCCACTTTCCCTTTTCCCACTGAAGGTTTTAGAAGCTAGGAG
GCAGGAAAATGTGACCCAGATGGGGGTGCTATTTGGCTTTTATTCCTGCCTTTGCAGAACTGATGTCACCCAG
ATGTCCTTCCCTCCCTAATAACTGTAAATATATAAATATGTCAGGTTAAAGGGAAAAGGTGTT CAGGGCACTTCT
TGTCCTCTCTGTCCCATACCTACCTCCACCTCCCCCTAGCCAGCCAGGCAGCTTCTCTGCCTGGGAGGGGAGC
CTGGACCCCCCTCTTTCTCCTTGGCTGCAGTGGGGCCTTTATCCAGTGCCAGGGAGGAACAACATAGTTAATTTT
TTTCTAACCTTGCCACTTTGAGGGAAGGAAGGGTTGGGGGAAGGGCAAGCTTTATGGGACCCTGGTCCTGGCCCT
GGCCTTTCAGTCCAGTTCTGGGTGAGGCAGGAGCTGGGAGGGGTGGGGAGGGGGAGGGGGAAGTGTCTGCCTTTA
TGTCCTTTCTCTGAAATAAAAGGAAAAGCATTCTGGA AAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2364

MMRFMLLFSRQGKLRQLQKWYLATSDKERKKMVRELMQVVLARKPKMCSFLEWRDLKVVKRYASLYFCCAIEGQD
NELITLELIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFMGGDVQDTSTFPFSH

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FIGURE 2365

GTGGGACGCGCCGAGCCGGAGGCTGCAGGATGATGCGGTTCATGCTATTATTTCAGCCGGCAGGGAAAAGTGC GGC
TGCAAAAATGGTACCTGGCCACTTCGGACAAGGAACGGAAGAAGATGGTGCGCGAGCTCATGCAGGTTGTCCTGG
CTCGAAAGCCCAAGATGTGCAGCTTCCTGGAGTGGAGGGACCTCAAAGTTGTCTATAAGAGATATGCCAGCCTCT
ACTTCTGCTGCGCCATCGAGGGCCAAGACAATGAGCTCATCAGCTGGAGCTGATCCACCGATACGTGGAGCTCT
TAGACAAATACTTTGGCAGTGTGTGCGAGCTGGACATCATCTTCAACTTTGAGAAGGCCTACTTCATCCTGGATG
AGTTTTTGATGGGGGGGGATGTCCAGGACACCTCCAAGAAGAGTGTGCTGAAAGCCATCGAGCAGGCTGACCTAC
TGCAAGAGGAGGATGAGTCGCCACGGAGTGTGCTGGAGGAGATGGGTTTGGCATAGCCCCCTGCTGGGCCGGGGTG
TGGCGATGGGGTCTTGGCAGCGTGGCGGGAACGGCTGCTTCTCCTCTGCCCAGGGCCCTGTTCTTGGTGGGACTC
GGCTGCCCCCTCCTC

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FIGURE 2366

MMRFMLLFSRQGKLRLOKWYLATSDKERKKMVRELMQVVLARKPKMCSFLEWRDLKVVKRYASLYFCCAIEGQD
NELITTLELIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFMGGDVQDTSKKSVLKAIEQADLLQEEDESPRS
VLEEMGLA

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FIGURE 2367

CCAGCGTGCTGAAGCCGGAGCGAGCTAGCCGCCCGGAGCCGCGCCGACCCAGCTGAGCCCAGCCCACGGGACGCC
AGACCTCGACCGTCTGCTCCTACCCCGGCCACCGCTCGGAGCCGAGGCGGACGCGTCCCGATCTTCCCCGTGCCCC
ACCCTGCCCCGACCCTCCTCTCCACCTCTCGCGTCTGTACACCAGCGTCTCCGGCAGCCTCTTGGTCATGAAAGC
CCTCAGATTGTGCGCTTCCGCCCTCTTCTGCTTCTGCTGATCAACGGGTAGGGGCAGCACCCCTGGTCGCCCC
TGAGGCGCAGCCTCCTCCTCTCAGCTCTGAGCATAAAGAGCCGGTAGCCGGGGACGAGTGCCCGGGCCAAAGGA
TGGCAGCGCCCCAGAGGTCCGAGGCGCTCGGAATTCCGAGCCGCGAGGACGAGGGAGAGCTTTTCCAGGGCGTGGA
TCCCCGGGCGCTGGCCGCGGTGCTGCTGCAGGCACTCGACCGTCCCGCCTCACCCCGGCACCAAGCGGCTCCCA
GCAGGGGCCCGAGGAAGAAGCAGCTGAAGCTCTGTGACCGAGACCGTGCGCAGCCAGACCCACAGCCTCCCGGC
GCCGGAGAGCCCGGAGCCCGCGGCTCCGCTCGCCCTCAGACTCCGGAGAATGGGCCGAGGCGAGCGATCCCTC
CGAGGAGCTCGAGGCGCTAGCGTCCCTGCTCCAGGAACTGCGAGATTTAGTCCAAGTAGCGCCAAGCGCCAGCA
GGAGACGGCGGCAGCAGAGACGGAAACCCGCACGCACACGCTGACCCGAGTGAATCTGGAGAGCCCGGGGCCAGA
GCGCGTATGGCGCGCTTCTGCGGAGAGTTCCAGGCGGTGTCCCGGAGCGCGCGCCCTGCCGCCCGGGCCCC
CTCTCAATTCCAGGCGCGTATGCCCGACAGCGGGCCCTTCCCGAAACCCACAAGTTCGGGGAAGGAGTGTCTC
CCCCAAACACACCTAGGCGAGGCATTGGCACCCCTGTCCAAGGCGTACCAAGGCGTGCGCGCCCGCTTCCCCAA
GGCGCGCCGGCCGGAGAGCGCACTCTGGGCGGCTCCGAGGCGGGCGAGCGCCTTCTCCAGCAAGGGCTGGCGCA
GGTGGAGGCCGGCGCGGCGGAGGCGGAGGCCACGCGGCAGGCGCGGCGCAGGAAGAGCGGCTGGCCGACCTCGC
CTCGGACCTGCTGCTCCAGTATTTGCTGCAGGGCGGGGCCCGGCAGCGCGGCCTCGGGGTGCGGGGCTGCAGGA
GGCGGCGGAGGAGCGAGAGAGTGCAGGGAGGAGGAGGAGGCGGAGCAGGAGAGACGCGCGGGGAGGAGAGGGT
GGGGGAAGAGGATGAGGAGGCGGCGGAGGCGGAGGCGGAGGAGGCGGAGAGGGCGCGGCAGAACGCGCT
CCTGTTGCGGAGGAGGAGGACGGGGAAGCCGCGCGCGAGGACAAGCGCTCCAGGAGGAGACGCCGGGCCACCG
GCGGAAGGAGGCCGAGGGGACAGAGGAGGGCGGGGAGGAGGAGGACGACGAGGAGATGGATCCGCAGACGATCGA
CAGCCTCATTGAGCTGTCCACAACTCCACCTGCCAGCGGACGACGTGGTCAGCATCATCGAGGAGGTGGAGGA
GAAGCGGAAGCGGAAGAAGACGCCCTCCCGAGCCCGTGCCGCCCGCCCGTGCCGCCCGCCCGCCCGCCACCCAGT
CCGCTCCCCGAGCCCCCGCCCCCGCCCCGCTCCCGCACGAGACGAGCTGCCGGACTGGAACGAGGTGCTCCC
GCCCTGGGATCGGGAGGAGGACGAGGTGTACCCGCCAGGGCGGTACCACCTTTCCCCAACTACATCCGGCCGCG
GACACTGCAGCCGCCCTCGGCCTTGCGCCGCGCCACTACCACCACGCTTGCCGCCTTCGCGCCACTATCCCGG
CCGGGAGGCCAGGCGCGGCGCGCAGGAGGAGGCGGAGGCGGAGGAGCGCCGGCTGCAGGAGCAGGAGGAGCT
GGAGAATTACATCGAGCACGTGCTGCTCCGGCGCCCGTTCACTGCCCTTCCCGGTCCCGCCCCGCGCGCCCCGC
CGCGCGCGCGCGCGCGGCGCCCCCTCCGTGTTGCCGCTCCCCCTCGGTGTTGCATGCGCCCCGGCCCTGCCCC
TTGGCCCTGCCCTGTCCCCGGGTGCGTGGGACCTGCCAGACCCCTCCCGGTCTGAGCCCGAAGCTCCCA
GAGCTACCCGCGGGTGACCGGGGCCAGCCCAGGAGGCGGGTGTTTGTGCGAGTTCCCTTGCCACGCGGGG
CCCGGCCCCATCAAGTCCCTCTGGGACGTCCCGTTCGGAACCGGAAAAAGCAGTTCCAGTTAATTGTGTGAAG
TGTGTCTGTCTCAGCCCTTCGGGCTCCACGAGCCCTCCAGCCTCTCCAAGTCGCTGTGAATTGACCCCTTC
TTTCCTTTCTCTGTTGTAAATACCCCTCACGGAGGAAATAGTTTTGCTAAGAAATAAAAGTGACTATTTT

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FIGURE 2368

MKALRLSASALFCLLLINGLGAAPPGRPEAQPPPLSSEHKPEVAGDAVPGPKDGSAPFVRGARNSEPQDEGELFQ
GVDPRALAAVLLQALDRPASPPAPSGSQQGPEEEAAEALLTETVRSQTHSLPAPESPEPAAPPRPQTPENGPEAS
DPSEEEALASLLQELRDFSPSSAKRQQETAAETETRTHTLTRVNLESPGPERVWRASWGEFQARVPERAPLPP
PAPSQFQARMPDSGPLPETHKFGEGVSSPKTHLGEALAPLSKAYQGVAAPFPKARRPESALLGGSEAGERLLQQG
LAQVEAGRQAEATRQAAAEERLADLASDLLLQYLLQGGARQRGLGGRGLQEAEEERESAREEEAEQERRGGE
ERVGEEDDEAAEAEAEAEAEERARQNALLFAEEEDGEAGAEDKRSQEETPGHRRKEAEGTEEGGEEEDDEEMDPQ
TIDSLIELSTKLHLPADDVVSIIIEVEEKRRKKNAPPEPVPPRAAPATHVRSPQPPFPAPAPARDELDPWNE
VLPPWDREEDVYPPGPYHPFPNYIRPRTLQPPSALRRRHYHHALPPSRHYPGREAQARRAQEEAEAEERRLQEQ
EELNYIEHVLLRRP

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FIGURE 2369

GGCACGAGGGCTTCCACATGTGTCAAGCGGCTGGCTCAGCCCAGAGTCCCTGTCTCCCGCCCGCCGGCCCGAGCC
GCCGCCCTCCCCCGCCTCCCGTGCGCCCGGGACAATCCTCGCCTTGTCTGTGGCGCCGGCATCTGGAGCTTTCT
GTAGCCTCCGGATACGCCTTTTTTTCAGGGCGTAGCCCCAGCCAAGCTGCTCCCGCGGCGGGCCGACAGCAGCC
CGAGCGCCCCCTTTCCGGAGCTCCCTCCGGAGCTGGGATCCAGGCGCGTAGCGGAGATCCCAGGATCCTGGGTG
CTGICTGGGCCCCTCCCCACATGACCTCCTCGGGGCTGGACCCCGGTTCTGCTGCTGCTGCCGCTGCTGCT
GCCCCCTGCGGCCTCAGCCTCCGACCGGCCCGGGGCCGAGACCCGGTCAACCCAGAGAAGCTGCTGGTGATCAC
TGTGGCCACAGCTGAAACCGAGGGGTACCTGCGTTTCTGCGCTCTGCGGAGTTCTTCAACTACACTGTGCGGAC
CCTGGGCCTGGGAGAGGAGTGGCGAGGGGGTGATGTGGCTCGAACAGTTGGTGGAGGACAGAAGGTCCGGTGGTT
AAAGAAGGAAATGGAGAAATACGCTGACCGGGAGGATATGATCATCATGTTTGTGGATAGCTACGACGTGATTCT
GGCCGGCAGCCCCACAGAGCTGCTGAAGAAGTTCGTCCAGAGTGGCAGCCGCTGCTTCTCTGACAGAGAGCTT
CTGCTGGCCCCGAGTGGGGGCTGGCGGAGCAGTACCCTGAGGTGGGCACGGGGAAGCGCTTCTCAATTCTGGTGG
ATTTCATCGGTTTTTGCCACCACCATCCACCAAATCGTGCGCCAGTGGAAGTACAAGGATGATGACGACGACCAGCT
GTTCTACACACGGCTCTACCTGGACCCAGGACTGAGGGAGAACTCAGCCTTAATCTGGATCATAAGTCTCGGAT
CTTTCAGAACCTCAACGGGGCTTTAGATGAAGTGGTTTTAAAGTTTGATCGGAACCGTGTGCGTATCCGGAACGT
GGCCTACGACACGCTCCCCATTGTTGGTCCATGGAACGGTCCCACTAAGCTGCAGCTCAACTACCTGGGAACTA
CGTCCCCAATGGCTGGACTCCTGAGGGAGGCTGTGGCTTCTGCAACCAGGACCGGAGGACACTCCCGGGGGGGCA
GCCTCCCCCCCCGGGTGTTTTCTGCGCGTGTGTGTGGAACAGCCTACTCCGTTTCTGCCCCGCTTCCTGACGCGGCT
GCTACTCCTGGACTATCCCCCGACAGGGTCACCTTTTCTGCAACAACAGAGGTCTTCCATGAACCCACAT
CGCTGACTCCTGGCCGAGCTCCAGGACCACTTCTCAGCTGTGAAGCTCGTGGGGCCGGAGGAGGCTCTGAGCCC
AGGCGAGGCCAGGGACATGGCCATGGACCTGTGTGCGCAGGACCCCGAGTGTGAGTTCTACTTCAGCCTGGACGC
CGACGCTGTCTCACCAACCTGCAGACCCTGCGTATCCTCATTGAGGAGAACAGGAAGGTGATCGCCCCATGCT
GTCCCGCCACGGCAAGCTGTGGTCCAACCTTCTGGGGCGCCCTGAGCCCCGATGAGTACTACGCCCCGCTCCGAGGA
CTACGTGGAGCTGGTGCAGCGGAAGCGAGTGGGTGTGTGGAATGTACCATAACATCTCCAGGCCTATGTGATCCG
GGGTGATACCCTGCGGATGGAGCTGCCCCAGAGGGATGTGTTCTCGGGCAGTGACACAGACCCGGACATGGCCTT
CTGTAAGAGCTTTCGAGACAAGGGCATCTTCTCCATCTGAGCAATCAGCATGAATTTGGCCGGCTCCTGGCCAC
TTCCAGATACGACACGGAGCACCTGCACCCCGACCTCTGGCAGATCTTCGACAACCCCGTCGACTGGAAGGAGCA
GTACATCCACGAGAACTACAGCCGGGCCCTGGAAGGGGAAGGAATCGTGGAGCAGCCATGCCCGGACGTGTACTG
GTTCCCACTGCTGTGTCAGAACAAATGTGTGATGAGCTGGTGGCAGAGATGGAGCACTACGGCCAGTGGTCAGGCGG
CCGGCATGAGGATTCAAGGCTGGCTGGAGGCTACGAGAATGTGCCACCGTGGACATCCACATGAAGCAGGTGGG
GTACGAGGACCAGTGGCTGCAGCTGCTGCGGACGTATGTGGGCCCCATGACCGAGAGCCTGTTTCCCGGTTACCA
CACCAAGGCGCGGGCGGTGATGAACTTGTGGTTTCGCTACCGGCCAGACGAGCAGCCGTCTCTGCGGCCACACCA
CGACTCATCCACCTTACCCTCAACGTTGCCCTCAACCACAAGGGCCTGGACTATGAGGGAGGTGGCTGCCGCTT
CCTGCGCTACGACTGTGTGATCTCTCCCCGAGGAAGGGCTGGGCACTCCTGCACCCCGCGCCCTCACCCTA
CCACGAGGGGCTGCCAACGACCTGGGGCACACGCTACATCATGGTGTCTTTGTGACCCCTAGACTCAACCAC
TCTGCCAAACCTGCCCTGCCATTGTGCCTTTTTAGGGGGCCTGGCCCCGTCTGGGAGTTGGGGGATGGGTCTC
TCTGTCTCCCACTTCTGAGTTCATGTTCCGCGTGCTGAACCTGAATATGTCACCTTGCTCCCAAGACACGGCC
CTCTCAGGAAGCTCCCGGAGTCCCGCCTCTCTCTCCGCCACAGGGGTTCTGTTGGCACAGGGCTTCTGGGGAC
TCCCGCGTGATAAATTATTAATGTCCGCAGTCTCACTCTGAATAAAGGACAGTTTGTAAAAAAAAAAAAAAAA
AA

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FIGURE 2370

MTSSGPGPRFLLLLPLLLPPAASASDRPRGRDPVNPEKLLVITVATAETEGYLRFLRSAEFFNYTVRTLGLGEEW
RGGDVARTVGGGQKVRWLKKEMEKYADREDMIIMFVDSYDVILAGSPTELLKKFVQSGSRLLFSAESFCWPEWGL
AEQYPEVGTGKRFLNSGGFIGFATTIHQIVRQWKYKDDDDQLFYTRLYLDPGLREKLSLNLDHKSRIQNLNGA
LDEVVLKFDRNRVRIIRNVAYDTLPPIVHGNP TKLQLNYLGNYVPNGWTPEGGCGFCNQDRRTLPGGQPPPRVFL
AVFVEQPTPFLPRFLQRLLLLDYPPDRVTLFLHNNEVFHEPHIADSWPQLQDHFSAVKLVGPEEALSPGEARDMA
MDLCRQDPECEFYFSLDADAVLTNLQTLRLILIEENRKVIAPMLSRHGKLWSNFWGALSPDEYYARSEDYVELVQR
KRVGVWNPYISQAYVIRGDTLRMELPQRDVFSGSDTDPDMAFCKSFRDKGIFLHLSNQHEFGRLLATSRYDTEH
LHPDLWQIFDNPVDWKEQYIHENYSRALEGE GIVEQPCPDVYWFLLSEQMCDELVAEMEHYGQWSGGRHEDSRL
AGGYENVPTVDIHMKQVGYEDQWLQLLRTYVGPMTESLFPGYHTKARAVMNFVVRYPDEQPSLRPHHDSSTFTL
NVALNHKGLDYEGGGCRFLRYDCVISSPRKGWALLHPGRLTHYHEGLPTTWGTRYIMVSFVDP

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FIGURE 2371

GCAGTTTATTCCGACAGTTGTGTTGTGCCAATGGTGGAGAAGAAAACCTTCGGTTCGCTCCCAGGACCCCGGGCAG
CGGCGGGTGCTGGACCGGGCTGCCCAGCGTCGCATCAACCGGCAGCTGGAGGCCCTGGAGAATGACAACTTC
CAGGATGACCCCCACGCGGGACTCCCTCAGCTCGGCAAGAGACTGCCTCAGTTTGATGACGATGCGGACACTGGA
AAGAAAAAGAAGAAAACCCGAGGTGATCATTTTAACTTCGCTTCCGAAAAAACTTTCAGGCCCTGTTGGAGGAG
CAGAACTTGAGTGTGGCCGAGGGCCCTAACTACCTGACGGCCTGTGCGGGACCCCATCGCGGCCCCAGCGCCCC
TTCTGTGCTGTCTGTGGCTTCCCATCCCCCTACACCTGTGTGCTCAGCTGCGGTGCCCGGTACTGCACTGTGCGCTGT
CTGGGGACCCACCAGGAGACCAGGTGTCTGAAGTGGACTGTGTGAGCCTGGGCATTCCCAGAGAGGAAGGGCCGC
TGTGCACTGCCCGGCCTTCAGAAAGACAGAATTTTCATCACCCAATGCAGGGGGAGCTCTTCCTGGACCAAGGGAG
GAGCCGCTCATTACCCAACAAAACCTGTGTCTTATCTGCCAGGAAAGACCAGCCTCACTCCTGGGAACCTGTCTGG
CAGGTAGGCTGGGCCCCCAGTGCTGTTAGAATAAAAAGCCTCGTGCCGG

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FIGURE 2372

MVEKKTSVRSQDPGQRRVLDRAARQRRINRQLEALENDNFQDDPHAGLPQLGKRLPQFDDADTGKKKKKTRGDH
FKLRFRKNFQALLEEQNLSVAEGPNYLTACAGPPSRPQRPFCAVCGFPSPYTCVSCGARYCTVRCLGTHQETRCL
KWTIV

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FIGURE 2373

ATATACTTGC GCGCCGACGCCGCCGCTCGCTTGTGAACTGGAAGGCTGCCATGGCTAGCCCAGCCGCCTCCTCG
GTGCGACCACCGAGGCCCAAGAAAGAGCCGACAGCGCTCGTCATCCCCAAGAATGCGGCGGAGGAGCAGAAGCTC
AAGCTGGAGCGGCTCATGAAGAACCCGGACAAAGCAGTTCCAATTCCAGAGAAAATGAGTGAATGGGCACCTCGA
CCTCCCCCAGAATTTGTCCGAGATGTCATGGGTTCAAGTGTGGGGCCGGCAGTGAGAGTTCCACGTGTACAGA
CATCTGCGCCGGAGAGAATATCAGCGACAGGACTACATGGATGCCATGGCTGAGAAGCAAAAATTGGATGCAGAG
TTTCAGAAAAGACTGGAAAAGAATAAAATTGCTGCAGAGGAGCAGACCGCAAAGCGCCGGAAGAAGCGCCAGAAG
TTAAAAGAGAAGAAATTACTGGCAAAGAAGATGAACTTGAACAGAGAACAAGAAGGACCCGGTCAGCCCAAG
GAGCAGGGGTCCAGCAGCTCTGCGGAGGCATCTGGAACAGAGGAGGAGGGAAGTGCCAGTTTACCATGGGG
CGATGACAATGTTTGCCACAGCCTCTGCCTGGAACCTGGCTCGTGCTGTGACCAGAAGGGAAAGGCGGCTGTTTG
GCTCTTTCTCCCCCGCAAGGACCCGCTGACCCGCTGGATGGAGAGCAAAGGAGACCCCTCCCGAGCCGCTCACAG
TCCTGTATTTGGCAGGTTTGGGAGCCTGAGGGGCCATCTCCCTGACACTCAGAGGCACTGCCTTGCAGACACCAT
CCGTGCTCCTGGTAAAGGGGGACAGAGAGCCTCACCTTGCCACATATTTGAACAGTGATGAGTTTGGGGCTGGTT
TCTGGGAAGGGAACGTTTATTTAGTAAAGAGCAGAACCCCTTGCGTTTTGTTGGGACATGTGGACCGTGAGTCG
CAAACACTCTGGAGAAGGCTGAGATGCCACCATTCCCACGGGGACTGAAGACACATTACGTGGACCTGGTCCAG
GCTCAGTGAGGAGATGGCCTCAGCTGTGGGGCTGGTCCATGTTGCCCACTCACTCCAGTGGGAAGTGGGGACCAC
GCCATAGAGGGTCTGCTCCCACTGCAGCTCCCGGTGCTCTCGTGTCTGGGAAGGCCTGGGTGTGTGCACAAGGA
GGCCCGGGCCAGGGACTTCAACAGGGGCTGGGTCACAAGGGCACAGGGTGTGTGGAAGCGCTGTGGGGGAAGAG
CCGGTCACCGGAGAGTGAGCAGGCGGAGACTCCAAGCTGGGCTGAGCCAGAGCAGAAGGCGAGGGATTCCAGCC
GGACGGGGGTCTCTCACCAACAGCTGTGATTTTCATCCCGAAGTGAAGGGGGTCTAAACAGAACAGGCTGAGAG
AGGCGGGACTGGGTCAAGTGGGTGGAGCTCCTCCTTGTCATGACTGCAACTGTCGGGGCTTTCCGCCGGCTCACAG
CAGTTGGGGCCAGCGGGGAGAAGAGAGGCGGAAGTGTGTCTCAGTGGCGCAGCCTCAAACCTGGCATCCAG
GCACTGGGCCCCTGCAGAGAAGGCACCTGCAGAGAGCAGGGCAGCCCGGCGCAGGGGCATGCGCCTAGAATCCCA
GCTACTCGGAAGGCCAAGGCAGGAGGACCGCTTGAGTCCAGGGATTCAAGGCCAACCTGGGCAATAGAGCGAGAC
CCTGTCTCTTAAAAACGATGATGATGAACACAGAGGACGGGGCACTGTGCTGGGAGCCAGGGGGCCTGGGAGGA
GCCGAGACCAGCCTTTTACCTCGGGGTTTTGAGGCCAACAGGGACGACAGAGACAGTTTCTAGTTAGAGCCTTGG
CTCCATTTTGGATGATTTAGCCCCGAGTTCTTGAGTCTATTTTATGCCCCTTACGTACTTTGATAGAACTAAGG
AAATAGTGGTTTTGAGTGAAGGGAAAGGAAACCCAGAAACATTTTACGTTGCTTTTACTTCTGTAGTGTAGATTG
CCCCGGCCCCCTCTCTGAGCCCTGTAGCATCTGTGATAGCTTCTGTCCCTTCATCGGTCATGTACAGGGATTTT
CTTTCCAGGAAGCGGACACGGAGAGTCAGCCCTAATAAATGAGCACATGCCCTGGCTGTACATTTTGAAACCTG

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FIGURE 2374

MASPAASSVRPPRPKKEPQTLVIPKNAAEQKLKLERLMKNPDKAVPIPEKMSEWAPRPPPEFVRDVMGSSAGAG
SGEFHVYRHLRRREYQRQDYMDAMAEKQKLDAEFQKRLEKNKIAAEEQTAKRRKKRQKLKEKKLLAKKMKLEQKK
QEGPGQPKEQGSSSSAEASGTEEEEEEVPSFTMGR

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FIGURE 2375

CGCTCGGCGCCCCGGCCGGGCCACTGGGCCACAGGCCACGCGGCCACGCAGTCCGAGCGGGAGCCGAGCCGGGCG
GGGCGAGGGCAGCTCCGGAACGTCCCAGGGATGGAAGTGCTTGGATGCGGTGCTGCTGGCTGCGGATGTGCGCAA
GGAGATGGGATGGAGAGCCTGAGTTGGCATTTCGTATAAATGACCTGCCTGGCTCCCACCATGAGTGCTGAGCTTA
ACGTGCCTATCGACCCCTCTGCTCCTGCCCTGCCCTGAGCCCGGCCATAAGGGCATGGATTACCGGGACTGGGTCC
GCCGCAGCTACCTGGAACCTGGTCACCTCTAACCACCCTCGGTACAGGCCCTGTCGTGGCGGAAGCTCTACCTGA
GCAGGGCCAAGCTGAAGGCCTCCAGCAGGACCTCCGCCCTCCTCTCCGGCTTTGCCATGGTGGCCATGGTGGAGG
TGCAGCTGGAGACGCAGTACCAGTACCCGCGGCCGCTGCTGATTGCCTTCAGCGCCTGCACCACGGTGTCTGGTGG
CCGTGCACCTGTTTCGCCCTCCTCATCAGCACCTGCATCCTGCCCAATGTGGAGGCCGTGAGCAACATCCACAACC
TGAATCCATCAGCGAGTCCCCGCATGAGCGCATGCACCCCTACATCGAGCTGSCCTGGGGCTTCTCCACCGTGC
TTGGCATCCTACTCTTCTTGCCCGAGGTGGTGTCTGCTGCTGGATCAAGTTCTTCCCCGTGGATGCCCCGGCGCC
AGCCTGGCCCCCACCTGGCCCTGGGAGTCACACGGGCTGGCAGGCCGCCCTGGTGTCCACCATCATCATGGTGC
CCGTGGGCCTCATCTTCTGTTGGTCTTCACCATCCACTTCTACCGCTCCCTGGTGCGCCACAAAACGGAGCGCCACA
ACCGCGAGATCGAGGAGCTCCACAAGCTCAAGGTCCAGCTGGACGGGCATGAGCGCAGCCTGCAGGTCTTGTGAG
GGGCCGAGGGCCGGGGCTGGGAGCGGCCCTGTGCCCGGGAGTCCGCGAGAGCGGGGATTTGTGATGCAGACAT
TTTGCAAGGCTGCCGGGTAGTTCAAGACCAAAGTTTTCTCTTGTCTTAATACCATAAGGACTGGATGACTTCTC
CTGAGATAGAACCGTTTGGTTCAATGAGGGACTGTGTTGCTAAGAGCGTTGGGGGCAAAGCCAGGCTGGTTCCTT
GGCCTCGGGGTTTCTTGGGTGCGGGACACGGTGAAGAGGCTCCAGCGGGACCTGCCCATCAGTCTTGGGCCAGGA
GGGGCTCCAAGCAGCACCCAGCGGTCCGGGGGAGTCTCAGACCCGGCATGCGTGGCTGGCAGACCTGGGAGAGCC
AGGGCAGGGTTTTGCGTTCAGAGAAGGATTGCCCCAGAGACCCGTGGTGGACTTCATGGGTGCTGAGTGGCCCCGT
GTGACAGTGATGACACGAAGGCTTCGGCGTTTTGAGTGGGTGCAGGTGCACGCCAGGGCTTGGTGTCTCCCTGCCT
GGCCCTGGAGGGAGCTGGGTGGCCTGGCTTCAGGGGAAGACAGGAGCCAGGACACACGTGAGCCAGCAGGTGTG
GGGGGTGCTGCAGCCCTCGGCAGTGGGGTCAGGCCCTGGGGGATGTTTCCAATGGTGGGCAGCCTGGCCAGGCCG
GAGAAGACATGTTACGGGCATCTATCAGATGCCCCCTTGAGGAGGCTGAGTTATTTGAGGGCTGCTGCAAAGTA
CGCTAGGCTCAAATTCTCTTTTCCCAGCCAGAGCCCTGGCCACACGGACTCAGAGGGGCCACCGGGGTGGGGAAA
GGACCCCTCCCCCACCCCGCAGCCACTGGCCTCCAGCTCTCGGCCACAGAATGGCCTCTAAGGCTGACTCAGC
CACTCCCTTGGGCTGTGGCAGCAGGAGGCGGGGGCTCTGGCTCAGGCCCGGAGCCTGTGCAGCTTGCCCATGGC
CCTAGGCAGCGAGGGGACAGCCTGGGGGACTTCTTGCTAGGCAAGGTCAATTGGCCGGGCCTGGCCTGTGGATAG
TGGGGCCAGGGGCCGGCCAGGCCAAATGAGTGGCCTCCTTGTATGACACCAAGTACTACAAGGGAGGCAAGA
CCCCTCCAGGCCTCTCAGCCGACACTGGGTCCCACCACACAGTGAAGTGTGCCGTGAGTGCAGGTTCTGGCCT
TTTCTTGAAGGCATCTGGTAGACCCGAAGCCACGCTCTCGGGCCGCACATGCACGCCGACGACAGCTGCCCT
GAGCTGCTTGTACAACCAACACCTTTCCCTCTTCTCCAGCTGTAACCTGGAGAGTCAGCCATGCCCTTGTCTTT
TGTTCTCATAAATAGTCACTGGGGCCGGGCGCAGTGAAGTCAAGCCCTGTAATCCAGCACTTTGGGAGGCCTAGGT
GGGCGGATCACTTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAACCCCTGTCTCTACTAAAAAAT
ACAGAAAATTAGCTGGGCGTGGTGGCGGGCGCCTGTAGCCCCAGCTACTTGGGAGGCTGAGGCGGGAGAATGGCA
ATGGCGTGAACCCGGGAGGCAGAGCTTGCAGTGAGCTGAGATGGCGCCACTGCACTCCAGCCTGGGCGACAGAGC
CAGACTCCATCTC

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FIGURE 2376

CGGCGGTGGCGGACACTTGGGGTCTGGACGCAACGGCGGCGGGAGCAATGAACGCCCCCTCCAGCCTTCGAGTCGTT
CTTGCTCTTCGAGGGCGAGAAGATCACCATTAAACAAGGACACCAAGGTACCCAATGCCTGTTTATTACCATCAA
CAAAGAAGACCACACACTGGGAAACATCATTAAATCACGTGCCTGCTTCCCCCTTCGCCTTCTGCCGTGATTGTCA
GTTTCCTGAGGCCTCCCCAGCCACGCTTCCTGTACAGCCTGCAGAACTCTGCCCCAGAGCACATCAGCTATGTGC
CCCAGCTCTCAAACGACACCTTGGCGGGGAGGCTCACCTGTCCACCTTCACGCTGGAGCAGCCTCTAGGCCAGT
TCAGCAGCCACAACATCTCTTGA

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FIGURE 2377

MNAPPAFESFLLFEGEKITINKDTKVPNACLFTINKEDHTLGNI IKS RACFPFAFCRDCQFPEAS PATLPVQPAE
LCPRAHQLCAPALKRHLGGEAHPVHLHAGAASRPVQQPQHL

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FIGURE 2378

CCATTGTGCTCTAAAGGGAAGGTGCTGTGTAATCATTAAAGGAGCGGAGGCTTTTGGAGCTGCTAAAATGCCGGAT
TACCTCGGTGCCGATCAGCGGAAGACCAAAGAGGATGAGAAGGACGACAAGCCCATCCGAGCTCTGGATGAGGGG
GATATTGCCTTGTTGAAAACCTTATGGTCAGAGCACTTACTCTAGGCAGATCAAGCAAGTTGAAGATGACATTTCAG
CAACTTCTCAAGAAAATTAATGAGCTCACTGGTATTAAAGAATCTGACACTGGCCTGGCCCCACCAGCACTCTGG
GATTTGGCTGCAGATAAGCAGACACTCCAGAGTGAACAGCCTTTACAGGTTGCCAGGTGTACAAAGATAATCAAT
GCTGATTTCGGAGGACCCAAAATACATTATCAACGTAAAGCAGTTTGCCAAGTTTGTGGTGGACCTTAGTGATCAG
GTGGCACCTACTGACATTGAAGAAGGGATGAGAGTGGGCGTGGATAGAAATAAATATCAAATTCACATTCCATTG
CCTCCTAAGATTGACCCAACAGTTACCATGATGCAGGTGGAAGAGAAACCTGATGTCACATACAGTGATGTTGGT
GGCTGTAAGGAACAGATTGAGAACTGCGAGAAGTAGTTGAAACCCCATTTACTTCATCCAGAGAGGTTTGTGAAC
CTTGGCATTGAGCCTCCCAAGGGCGTGCTGCTCTTTGGTCCACCCGGTACAGGCAAGACACTCTGTGCGCGGGCA
GTTGCTAATCGGACTGATGCGTGCTTCATTTCGAGTTATTGGATCTGAGCTTGACAGAAATACGTCGGTGAGGGG
GCTCGAATGGTTCGTGAACCTCTTTGAAATGGCCAGAACAAAAAGCCTGCCTTATCTTCTTTGATGAAATTGAT
GCTATTGGAGGGGCTCGTTTTGATGATGGTGCTGGAGGTGACAATGAAGTGCAGAGAACAATGTTGGAAC TGATC
AATCAGCTTGATGGTTTTGATCCTCGAGGCAATATTAAAGTGCTGATGGCCACTAACAGACCTGATACTTTGGAT
CCAGCACTGATGAGGCCAGGGAGATTGGATAGAAAAATTGAATTTAGCTTGCCCGATCTAGAGGGTTCGACCCAC
ATATTTAAGATTACGCTCGTTCAATGAGTGTTGAAAGAGATATCAGATTTGAACTGTTAGCACGACTGTGTCCA
AATAGCACTGGTGCTGAGATTAGAAGCGTCTGCACAGAGGCTGGTATGTTGCCATCAGAGCACGGCGAAAAATT
GCTACCGAGAAGGATTTCTTGGAAGCTGTAAATAAGGTCATTAAAGTCTTATGCCAAATTCAGTGCTACTCCTCGT
TACATGACATACAACTGAACCCTGAAGGCTTTCAAGTGAAAACCTTTAAATTGGAATCCTAACCTTATATAGACTT
GTTAATAACCAATTCATAAACAAATAAATGGCTTCAACTTTAGAGCACAATGG

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FIGURE 2379

MPDYLGADQRKTKEDKDDKPIRALDEGDIALLKTYGSTYSRQIKQVEDDIQQLKKINELTGIKESDTGLAPP
ALWDLAADKQTLQSEQPLQVARCTKIINADSEDPKYIINVKQFAKFVVDLSDQVAPTDIEEGMRVGVDRNKYQIH
IPLPPKIDPTVTMMQVEEKPDVTYSDVGGCKEQIEKLREVVETPLLHPERFVNLGIEPPKGVLLFGPPGTGKTL
ARAVANRIDACFIRVIGSELVQKYVGEGARMVRELFEMARTKKACLIFFDEIDAIGGARFDDGAGGDNEVQRTML
ELINQLDGFDPGRNIKVLMTNRPDTLDPALMRPGRDLDRKIEFSLPDLEGRTHIFKIHARMSVERDIRFELLAR
LCPNSTGAEIRSVCTEAGMFAIRARRKIEKDFLEAVNKVIKSYAKFSATPRYMTYN

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FIGURE 2380

CTTCCCTCTGCCAACATGGCGGCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGGA
TGACCTGGAAGGAGATGTTTCTACAACCTTGGCACAGTAACGATGACGATGTGTACAGGGCGCCTCCAATTGACCG
TTCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACC
CTACACTGCTTTTCTAGGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAA
TATCAGTGCAAGTGCCTTTACCACGTGAACCCAGCAATCCAGAGAGGCTGAAAGGTTTTGGTTATGCTGAATTTGA
GGACCTGGATTCCCTGCTCAGTGCCTGAGTCTCAATGAAGAGTCTCTAAGTAACAGGAGAATTCGAGTGGACGT
TGCTGATCAAGCACTGGATAAAGAGTATCGAGATCGTTATGATTTCAGACCGGTATCGGGATGGGTATCGGGATGG
CCCACGCCGGGATATGGATCGATATGGTGGCCGGGATCGCTATGATGACCGAGGCAGCAGAGACTATGATAGAGG
CTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTGGCAGTGGGTATCGCAGGGATGATGACTACAGAGAAGG
CAGGGACTGCTATGAAGACCAATATGACAGACGGGATGATCGGTTCGTGGAGCTCCAGAGATGATTACTCTCGGGA
TGATTATAGGCGTGATGATAGAGGTCCCCCCCCCCCCAAAGACCCAACTGAATCTAAAGCCTCGGAGTACTCCT
AAGGAAGATGATTCCTCTGCTAGTAACTCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCTGTT
G

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FIGURE 2381

CCTAACAGACTTTCTGGCTGAGGATGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGC
TGATGAAACGGATGACCTGGAAGGAGATGTTTCTACAACCTTGGCACAGTAACGATGACGATGTGTACAGGGCGCC
TCCAATTGACCGTTCCATCCTTCCCCTGCTCCACGGGCTGCTCGGGAGAGACACCCAAGCTGGCAAAGTGAAGA
AACTCAGGAACGGGAACGGTCCGAGGACAGGAAGTGAGTCATCACAGACTGGGACCTCCACCACATCTGGCAGAAA
TGCATGAAGGAGAGAGAGTGAGAAGTCTCTAGAAAATGAAACACTCAATAAGGAGGAAGATTGCCACTCTCCAAC
TTCTAAACCTCCCAAACCTGATCAGCCCCCTAAAGGTAATGCCAGCCCCCTCCACCAAAGGAGAATGCTTGGGTGAA
GCGAAGTTCTAACCCCTCCTGCTCGATCTCAGAGCTCAGACACAGAGCAGCAATCCCCTACAAGTGGTGGGGGAAA
AGTAGCTCCAGCTCAACCATCTGAGGAAGGACCAGGAAGGAAAGATGAAAATAAAGTAGATGGGATGAATGTCCC
AAAAGGCCAACTGGGAACTCTAGCCGTGGTCCAGGAGACTGAGGGAACAGAGACCACTGGAAGGAGTCAGATAG
GAAAGATGGCAAAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAACCTGAGGAAAATCCAGCTTCCAA
GTTTCAGTTCTGCAAGCAAGTATGCTGCTCTCTCTGTTGATGGTGAAGATGAAAATGAGGGAGAAGATTATGCCAA
ATAGACCTCTACATCCTGTGCTTTTTCTCCTAGTTTCTCTCCACCTGGAACATTCGAGAGCAAATCAAAACCTCT
ATCCAGACAAGACAAAATAAACTCACCATCTCCTGAAGACCTTTCTTACCTTTTTTTTAAACAAAAAATGAAA
TTATTTTGCATGCTGCTGCAGCCTTTAAAGTATTGAAGTAAGTGGAGAATTGCCAATACAGCCAGAGAGAAAGGG
ACTACAGCTTTTLAGAGAAGTTGTGGTGCCTTATGTCACCATGCGATTGCCAGTGTGATTAGTGCCTAGGGGTCT
CCATTTAGCAGAAAATGGTAATGACAGTGATATAACGCCTGGAACCTGGTTGGGCAGTAGGGGAGGGAGGTAGAAG
GAAAAGTGTGAGATTTCTACCTTTTAGTTTTTTTCTATTGTGGCATATATGAATTCTCAAACATTATCTGAATA
AATTTTCCATTCTTGGAAAGGTAGATTTAGCCTCAAGTTGTTTTAGTCTCCAGGAGGCTGCCAGCCCCCTCCTCTT
ATTTAATTCTGAGTTTTGGGGGACAGCCTAGAGGGAATTCCTTTTTTTTTTTTTTACCCCCAAGGGGGTTAG
TTGGGAGTGAGACTATAGGCCATAAAGAATGGGACTCATTGGACCAAAATAAATGGGAAAATCGTGGTTTGAAAG
GAAGCTTTTGGGAATTGATGAGTCATTTTGCACCAGGTAATAGGGGAAAATGTGTGACCTCCAGCAAACACATG
AATGGTTATTTCTGAGCCGGAAGCACTTGGGGGTCGTGGTAATTCCCAATGTTTTCTGTGCTAGTTTACC
CTTTCTAAACACTGTCCTTTTGAAGTTTGAATATATCCACATTCTATTGAAACCTTGAAACTAAAAATTTAGA
CTCTTATCGTCATCTTAAGTTCTTCATGCTACTCTTAACCTCCCAAAAAGCAGTATCTAAGTCACATACATGATG
TCTTGGGCATTTTCTCTCTCAGCCATGGAGAATCTGAAAGGAAGAATCGCTGCTTTTCTCAAGCAAATCGGTTT
CTTGATATCTTCTGGTTCTCACTCCTTGCTGCTGCTGATGCTTTGACCCCTTTTATTGATCAGAGTGCTCTAGA
ATAATGGATGGTCTTGGATGGTGGATAAATAGGGACAGGGACAGTTAAATTGGGAGCCTTTCTTACAACCTTGAT
GGGTTTTTTTCCCCCAAGTTTCCCTTCTCCACTGAAATGCCACACTAATGTTTGTGGATTGATGAGGTGGCCAG
ACCAATGTGTTTTGTTTTGTTTTTTTTTTTTTAAAGCTTCCCTTGAGAGAATAAACGGAAATGGAGAGAACTATTT
AACAAGGTCCTGGTTTCTCTTCAACACAGTAGCTAAACTTGCCTGCCTTTATATGCATTTTGTAGGGATCAGC
TTGGTAGACAGTATTAGCAGAGAAACACCTTGATCTTGGTTTGCAAACCTTCTGCCATCAGTCCTAGATTAGGC
CCTGTTACAGCCATGCAGGGGTGTTGGTTTATGCGTGCTGCAGCAGTGGGCATAATGAATATAATTTACCCAGTGG
ACAAAGGTGTGTACCAAGTGAATTTAAATAATTGGTGTGGATTGGCCAGTAGCTAAGAAGTGGGCTTTTAAAGAG
TATTGAAGATTGAAAGGTGTTTTTTTCTTTTTTAAAAAAGAAAAAAAATATTGATTGTAGATAATGAAAAGC
TAGGGTTTGGCCCTCTTCATGCTACTCTCCTTCCAAATAGTTATATCCAAAATGTTTTTCCCTGTCCCTACCT
TGTCCCCCATTAAAAATAGAAACAGGGATTGATTAATGTCCCGCTCCTGAATACATGTAAAATTTGTACAAAA
TATCTTCTATGAAAATGATTTGTAATCTGTAGACTTATTACCTGGGAGATGTCTTGATGTAAAATCCCATCCTTT
GGGTTGTGGGTTTTTGTTCCTCCAAATAAATCTGATCTTTAAAGTTC

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FIGURE 2382

MAASAKKKNKKGTISLTDFLAEDGGTGGGSTYVSKPVSWAETDDLEGDVSTTWHSNDDDVYRAPPIDRSILPT
APRAAREPNIDRSRLPKSPPYTAFLGNLPYDVTEESIKEFFRGLNISAVRLPREPSNPERLKGFYAEFEDLDSL
LSALSLNEESLGNRRIRVDVADQAQDKDRDRSFGRDRNRDSKTDTDWRARPATDSFDDYPPRRGDDSFGDSYD
SRIGSGRRAFSGGYRRDDYRGGGDRYEDRYDRRDRSWSSRDDYSRDDYRRDDRGPPQRPKLNKPRSTPKEDD
SSASTSQSTRAASIFGGAKPVDTAAREREVEERLQKEQEKLRQLDEPKLERRPRERHPSWRSEETQERERSRTG
SESSQTGTSTTSSRNARRRESEKSLENETLNKEEDCHSPTSKPPKPDQPLKVMPPAPPKENAWVKRSSNPPARSQ
SSDTEQQSPTSGGGKVAPAQPSEEGPGRKDENKVDGMNAPKGQTGNSSRGPGDGGNRDHWKESDRKDGKKDQDSR
SAPEPKKPEENPASKFSSASKYAALSVDGEDENEGEDYAE

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FIGURE 2383

GTAGCGGGAGCGGAGAGCGGACCCCGGAGAGCGGACCCAGAGAACCCTGAGCAGCCCCGCCGCTGCCGGCCTAG
TTACCGTCATACCACGGGAGGAGCCGCAGCTGCCGCAGCCGGCCCCAGTCTCCATCACCGBAACCAATGAGCAGC
AAGGCCGAGACCCAGCAGCCACCCGCCGCCCGCCCTTTCCCCCACCGCCCCCTCCCGTCCCCCGCGGCC
CGCCCTCAGCGCCGCCGACACCAAGCCCGGCACTACGGGCAGCTGCGCAGGGAGCGGTGGTCCGGGCGGCCTCAC
ATCGGCGGCGCCTGCCAGCGTGGACAAGAAGGTTCATCGCAGTGAAGGTTTTGGGAACAGTAAATGGTTCAATGT
AAGGAACGGATATGGTTTCATCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAGACTGCCATAAAGAA
TAACCCAGGAAGTACCTTCGCAGTGTAGGAGATGAAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAGAGGG
TGCGGAGGCAGCAAATGTTACAGATCCTGGTGGTGTTCGAGTTCAAGGCGGTAAATATGCAGCAGATCGTAACCA
TTATAGACGCTATCCACGTCATAGGGGTCTCCACGCAATTACCAGCAAAATTACCAGAACAGTGAGAGTGGGGA
AAAGACCGAGGGATCGGAGAATGCTCCCGAAGGCCAGGCCCAACAATGCCGGCCCTACCGCAGGCAAAGGTTCCC
ACCTTACTACATGCGGAGACCCTATGGGTGTGACCACAGTATTCCAGCCCTCCTGTGCAGGGAGAAGTGATGGA
GGGTGCTGACAACCAGGGTGCAGGAGAACAAAGGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCACG
ATTCCGCAGGGGCCCTCCTTGCCAAAGACAGCCTAGAGAGTACGGCAATGAAGAAGATAAAATCAAGGAGATGAG
ACCCAGGGTCAGCAGCCACCTCAACGTCGGTACCGCAGCAACTTCAATTACCAACGCAGATGCCAGAAAACCT
AAATCACAAGATGGCAAAGAGACAAATCAGCCAATCCACCAGCTGAGAATTCGTCTGCTCCCGAGGCTGAGCAG
GGCGGGGCTGAGTAAATGCCGGCTTACCATCTCTACCATCATCCGTTTGTATCATCCAACAAGAAGAAATATGAA
ATTCCAGCAATGAAGAAATGAACAAAAGATTGGAGCTGAAGACCTTAAGTGCTTGCTTTTGGCCGTTGACCAGAT
AAATAGAACTATCTGCATTATCTATGCAGCATGGGGTTTTATTATTTTACCTAAATATGTCTCTTTTGGTAA
TAACAAACGTGTTTTTTTTAAAAAGCCTTGTTTTCTCAATACGCCTTTAAAGG

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FIGURE 2384

MRRPYGCRPQYSSPPVQGEVMEGADNQGAGEQGRPVQRNMYRGYRPRFRRGPPCQRQPREYGNEEDKIKEMRPRV
SSHLNVGTAATSITNADAQKTLNHKMAKRQNQPIHQLRIRLLPRLSRAGLSKCRLTISTIIIRFSHPTRRNMKFQQ

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FIGURE 2385A

GGGACCTGGAAGCGCCCCAGCCCCGAGCGATCGCAGATTTCGGCTTTCAAACAAAAGAGGCGCCCCGGGGGGTGG
GACCGGGACCTCACCCGGTCCCTCGCAGAGTTGCGGCCGCCCGCCCTTCAGCCCCGGCTCTCCGTATGCGCATGA
GCAGAGGCGCCTCCCTCTGTTCCTCCCAAGGCTAAACTTTCTAATTCCCTTCTTTGGGCTCGGGGGCTCCCGGAG
CAGGGCGAGAGCTCGCGTCGCGGAAAGGAAGACGGGAAGAAAGGGCAGGCGGCTCGGCGGGCGTCTTCTCCACT
CCTCTGCCCGCTCCCCGTGGCTGCAGGGAGCCGGCATGGGGCTTCTCCAGTTGCTAGCTTTTCTTCTAGCCC
TGTCAGAGCCCCGAGTGCAGCGCTCAGGAACCCGAGTTTACGTACGGCTGCGCAGAAGGCAGCTGTATCCCGCCA
CGGGCGACCTTCTCATCGGCCGAGCACAGAAAGCTTTCCGTGACCTCGACGTGCGGGCTGCACAAGCCCGAAGCC
TACTGTATCGTCAGCCACTTGCAGGAGGACAAAAATGCTTCAATGCAATTCCCAAGATCCTTATCATGAGACC
CTGAATCTGACAGCCATCTCATTGAAAATGTGGTCACTACATTTGCTCCAAACCGCTTAAGATTTGGTGGA
TCTGAAAAATGGTGTGGAATGTAATATCCAACTGGATTGGAAGCAGAATTCATTTTACTCATCTCATAATG
ACTTTCAAGACATTCCGTCCAGCTGCTATGCTGATAGAACGATCGTCCGACTTTGGGAAAACCTGGGGTGTGTAT
AGATACTTCGCTATGACTGTGAGGCCTCGTTTCCAGGCATTTCAACTGGCCCCATGAAAAAAGTCGATGACATA
ATTTGTGATTCTCGATATTCTGACATTGAACCTCAACTGAAGGAGAGGTGATATTTTCGTGCTTTAGATCCTGCT
TTCAAATAGAAGATCCTTATAGCCCAAGGATACAGAATTTATTAATAATTACCAACTTGAGAATCAAGTTTGTG
AAACTGCATACTTTGGGAGATAACCTTCTGGATTCCAGGATGGAAATCAGAGAAAAGTATTATTATGCGATTTAT
GATATGGTGGTTCGAGGAAATGCTTCTGCTATGGTCATGCCAGCGAATGTGCCCTGTGGATGGATTCAATGAA
GAAGTGGGAAGGAATGGTTCACGGACACTGCATGTGCAGGCATAACACCAAGGGCTTAAACTGTGAATCTGCGATG
GATTTCTACCATGATTTACCTTGGAGACCTGCTGAAGGCCGAAACAGCAACGCCTGTAAAAATGTAAGTGAAT
GAACATTCATCTCTTGTCACTTTGACATGGCTGTTTACCTGGCCACGGGGAACGTCAGCGGAGGCGTGTGTGAT
GACTGTGACACAACACCATGGGGCGCAACTGTGAGCAGTGCAAGCCGTTTTACTACCAGCACCCAGAGAGGGAC
ATCCGAGATCCTAATTTCTGTGAACGTATGTACGTGTGACCCAGCTGGCTCTCAAATGAGGGAATTTGTGACAG
CTATACTGATTTTCTACTGGTCTCATTGCTGGCCAGTGTCGGTGTAATTAATGTGGAAGGAGAACATTGTGA
TGTTTGCAAGAAGGCTTCTATGATTTAAGCAGTGAAGATCCATTTGGTTGTAAATCTTGTGCTTGAATCCTCT
GGGAACAATTCCTGGAGGGAATCCTTGTGATTCCGAGACAGGTCAGTCTACTGCAAGCGTCTGGTGACAGGACA
GCATTGTGACCAGTGCCCTGCCAGAGCACTGGGGCTTAAGCAATGATTTGGATGGATGTGACCATGTGACTGTGA
CCTTGGGGGAGCCTTAAACAACAGTTGCTTTGCGGAGTCAGGCCAGTGCTCATGCCGGCCTCACATGATTGGACG
TCAGTGCAACGAAGTGAACCTGGTTACTACTTTGCCACCCTGGATCACTACCTCTATGAAGCGGAGGAAGCCAA
CTTGGGGCCTGGGGTTAGCATAGTGGAGCGGCAATATATCCAGGACCGGATTCCCTCCTGGACTGGAGCCGGCTT
CGTCCGAGTGCCCTGAAGGGGCTTATTGGAGTTTTTCATTGACAACATACCATATTCATGGAGTACGACATCCT
AATTCGCTACGAGCCACAGCTACCCGACCACTGGGAAAAAGCTGTGTCATCACAGTGCAGCGACCTGGAAGGATTCC
AACCAGCAGCCGATGTGGTAATACCATCCCGATGATGACAACCAAGGTGGTGTGTCATTATCACCAGGCTCAAGATA
TGTCGTCTTCTCGGCCGGTGTGCTTTGAGAAGGGAACAACTACACGGTGAGGTGGAGCTGCCCTAGTACAC
CTCCTCTGATAGCGACGTGGAGAGCCCCCTACACGCTGATCGATTCTTGTCTCATGCCATACTGTAAATCACT
GGACATCTTACCGTGGGAGGTTTCAAGAGATGGGGTGGTCACCAACAGTGCCTGGGAAACCTTTAGAGATACCG
ATGTCTAGAGAACAGCAGAAGCGTTGTGAAAACCCGATGACAGATGTTTGCAGAAACATCATCTTTAGCATTTT
TGCCCTGTTACACCAGACAGGCTGGCTTGTGAATGCGACCCTCAGGGTTTCGTTAAGTTCCGTGTGTGATCCCAA
CGGAGGCCAGTGCCAGTGCCGGCCCCAACGTGGTTGGAAGAACCTGCAACAGATGTGCACCTGGAACCTTTGGCTT
TGGCCCCAGTGGATGCAAACCTTGTGAGTGCCATCTGCAAGGATCTGTCAATGCCTTCTGCAATCCCGTCACTGG
CCAGTGCCACTGTTTCCAGGGAGTGTATGCTCGGCAGTGTGATCGGTGCTTACCTGGGCACTGGGGCTTTCCAAG
TTGCCAGCCCTGCCAGTGCAATGGCCACGCCGATGACTGCGACCCAGTGAAGGAGTGTGTAAGTGGCAGGATCA
CTACACCATGGGTGATAACTGTGAAAGGTGCTTGGCTGGTTACTATGGCGACCCCATCATTGGGTCAGGAGATCA
CTGCCGCCCTTGCCCTTGCCAGATGGTCCGACAGTGGACGCCAGTTTGCCAGGAGCTGTACCAAGATCCTGT
TACTTTACAGCTTGCTGTGTTGTGTAICTGGATACATTTGGTTCCAGATGTGACGACTGTGCTCAGGATACCT
TGGCAATCCATCAGAAGTTGGGGGGTCTGTGACGCTTGGCAGTGTGTCACAACAACATTGACACGACAGCCAGA
AGCCTGTGACAAGGAGTGGGAGGTGTCTCAAGTGCCTGTACCAACGGAAGGGGAACACTGTGCTGTGCGG
GTTTGGATACTATGGTGTATGCCCTCCAGCAGGACTGTGCAAGTGTGTCTGTAATTACCTGGGCACCGTGAAGA
GCACTGTAACGGCTCTGACTGCCAGTGCACAAAGCCACTGGTCAGTGCTTGTGTCTTCTAATGTGATCGGGCA
GAACTGTGACCGCTGTGCGCCCAATACCTGGCAGCTGGCCAGTGGCACTGGCTGTGACCCATGCAACTGCAATGC

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FIGURE 2385B

TGCTCATTCTTCGGGCCATCTTGCAATGAGTTCACGGGGCAGTGCCAGTGCCATGCCTGGGTTTGGAGGCCGCAC
CTGCAGCGAGTGCCAGGAACCTCTTCTGGGGAGACCCCGACGTGGAGTGCCGAGCCTGTGACTGTGACCCAGGGG
CATTGAGACGCCACAGTGTGACCAGTCCACGGGCCAGTGTGTCTGCGTTGAGGGTGTGAGGGTCCACGCTGTGA
CAAGTGCACGCGAGGGTACTCGGGGGTCTTCCCTGACTGCACACCCTGCCACCAGTGCTTTGCTCTCTGGGATGT
GATCATTGCCGAGCTGACCAACAGGACACACAGATTCTTGGAGAAAGCCAAGGCCTTGAAGATCAGTGGTGTGAT
CGGGCCTTACCGTGAGACTGTGGACTCGGTGGAGAGGAAAGTCAGCGAGATAAAAAGACATCCTGGCGCAGAGCCC
CGCAGCAGAGCCACTGAAAAACATTGGGAATCTCTTTGAGGAAGCAGAGAAAAGTGAATAAAGATGTTACAGAAAT
GATGGCTCAAGTAGAAGTGAAATTATCTGACACAACCTCCCAAAGCAACAGCACAGCCAAAGAACTGGATTCTCT
ACAGACAGAAGCCGAAAGCCTAGACAACACTGTGAAAGAACTTGTGAACAACCTGGAATTTATCAAAAACCTCAGA
TATTCGGGGTGCCTTGATAGCATTACCAAGTATTTCCAGATGTCTCTTGAGGCAGAGGAGAGGGTGAATGCCTC
CACCACAGAACCACAGCACTGTGGAGCAGTCAGCCCTCATGAGAGACAGAGTAGAAGACGTGATGATGGAGCG
AGAAATCCAGTTCAAGGAAAAACAAGAGGAGCAGGCTCGCCTCCTTGATGAACTGGCAGGCAAGCTACAAAGCCT
AGACCTTTTCAGCCGCTGCCGAAATGACCTGTGGAACACCCCCAGGGGGCCTCCTGTTCCGAGACTGAATGTGGCGG
GCCAAACTGCAGAACTGACGAAGGAGAGAGGAAGTGTGGGGGGCCTGGCTGTGGTGGTCTGGTTACTGTTGCACA
CAACGCCTGGCAGAAAGCCATGGACTTGGACCAAGATGTCTGAGTGCCCTGGCTGAAGTGGAAACAGCTCTCCAA
GATGGTCTCTGAAGCAAACTGAGGGCAGATGAGGCAAAACAAAGTGCTGAAGACATTCTGTTGAAGACAAATGC
TACCAAAGAAAAATGGACAAGAGCAATGAGGAGCTGAGAAATCTAATCAAGCAAAATCAGAAACTTTTTCACCCA
GGATAGTGCTGATTTGGACAGCATTGAAGCAGTTGCTAATGAAGTATTGAAAATGGAGATGCCTAGCACCCACA
GCAGTTACAGAACTTGACAGAAGATATACGTGAACGAGTTGAAAGCCTTTCTCAAGTAGAGGTTATCTTCAGCA
TAGTGCTGCTGACATTGCCAGAGCTGAGATGTTGTTAGAAGAAGCTAAAAGAGCAAGCAAAAGTGCAACAGATGT
TAAAGTCACTGCAGATATGGTAAAGGAAGCTCTGGAAGAAGCAGAAAAGGCCAGGTGCGCAGCAGAGAAGGCAAT
TAAACAAGCAGATGAAGACATTCAAGGAACCCAGAACCTGTAACTTCGATTGAGTCTGAAACAGCAGCTTCTGA
GGAAACCTTGTTCAACGCGTCCCAGCGCATCAGCGAGTTAGAGAGGAATGTGGAAGAACTTAAGCGGAAAGCTGC
CCAAACTCCGGGGAGGCAGAAATATATTGAAAAAGTAGTATATACTGTGAAGCAAAGTGCAAGATGTTAAGAA
GACTTTAGATGGTGAACCTTGATGAAAAGTATAAAAAAGTAGAAAATTTAATTGCCAAAAAACTGAAGAGTCAGC
TGATGCCAGAAGGAAAGCCGAAATGCTACAAAATGAAGCAAAACTCTTTTAGCTCAAGCAAATAGCAAGCTGCA
ACTGCTCAAAGATTTAGAAAGAAAATATGAAGACAATCAAAGATACTTAGAAGATAAAGCTCAAGAATTAGCAAG
ACTGGAAGGAGAAGTCCGTTCACTCCTAAAGGATATAAGCCAGAAAGTTGCTGTGTATAGCACATGCTTGTAAACA
GAGGAGAAATAAAAAATGGCTGAGGTGAACAAGGTAAACAACCTACATTTTAAAACTGACTTAATGCTCTTCAA
ATAAAACATCACCTATTTAATGTTTTTAATCACATTTTGTATGGAGTTAAATAAAG

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FIGURE 2386

CTCTTTTTCCGGCTGGAACCATGGTGGGTGTAGAAGAGAAGAAGAAGGTTCTTGCTGTGCCAGAAACCTTAAGA
AAAAGCGAAGGAATTTCTCAGAGCTGAAGATGAAGCGCCTGAGAAAGAAGTTTGCCCAAAGATGCTTCGAAAGG
CAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAGGGAATATAGGCAGATGTACAGAACTGAAATTC
GAATGGCGAGGATGGCAAGAAAAGCTGGCAACTACTTTGTACCTGCAGAACCCAACTGGCATTGTGCATCAGAA
TCAGAGGTATCAGTGGCGTGAGCCCAAAGGTCCGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTACAATG
GAACCTTTGTGAAGCTCAACAAGGCTTCGACTAACATGCTGAGGATTGTAGAGCCATATATTGCATGGGGGTACC
CCAATCTGAAGTCAGTAAATGAACTAATCTACAAGAGTGGTTATGGCAAATCAATAAGAAGCGAATTGCTTTGA
CAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATATGGCATCATCTGCATGGAGGATCTGATTCATGAGATCT
ATACTGTTGGAAAACGCTTCAAAGAGGCAAATAACTTCCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGTGGAA
TGAAGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTTATTA
GAAGAATGAACTAAGGTGTCTACCATGACTATTTCTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTCAAAT
TGG

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FIGURE 2387

CTTCCTAGAAGGTAAATGTACGAACTCGTCTCCAAAGGATACTTAGGTTGCACCAGTGTATTTGTAAACAGGAGC
AAATTTGGACCTTGCCGGGCCAAAGTCGTGTACGTGGAACCTCTTAATCTCAGCATCCGGAGCTCCAGGAAGGG
AAAATTTCAAGTCAGATAGAATTCTATATATACCATTTCTAGGAACCTTCAGCCCTCAAGATTCCAACATCATGA
CCTCAGTTTCAACACAGTTGTCCTTAGTCCTCATGTCACTGCTTTTGGTGCTGCCTGTTGTGGAAGCAGTAGAAG
CCGGTGATGCAATCGCCCTTTTGGTTAGGTGTGGTTCTCAGCATTACAGGCATTTGTGCCTGCTTGGGGGTATATG
CACGAAAAAGAAATGGACAGATGTGACTTTGAAAGGCCTACTGAGTCAAACCTCACCTGAAAACCTTTGCGCTT
TAGAGGCTAAACCTGAGATTTGGTGTGTGAAAGGTTCCAAGAATCAGTAAATAAGGGAGTTTCACATTTTTCATT
GTTTCCATGAAATGGCAACAAACATACATTTATAAATTGAAAAAAAATGTTTTCTTTACACAAATAATGCACA
GAAAAATGCAGCCTATAATTTGCTAGTTAGGTAGTCAAAGAAGTAAGATGGCTGAAATTTACATAAGTAATATTT
CATAATCTTAGAATTCTCTCAAAGCATGTGAAATAGGAAGAAGGAAGTTCTTGCCAGAACTTAGGAAATCACC
ACTGTTTCGGTTATAATCACTGCCTCCTGAATCGTTGAGGAGTCTTTTAAATTAGATTTTTGTTTGTGTCTCCC
AAGTTAATATTATATTTAGATATCAGAGAGTCAGGCAAAAAGGAAAACCTTTATCTCTAGGGAAAAACATTTAG
AAAAATGTATTTCAGTGTATCTAATACTGAAATGCGGAAAAAAATTTAATGTTAAAAAAAACATATAGACATTGAC
ATGGAAAAGAGATTTAATGTTTTGAAAAAAAACCTTTATATTAAGTAAACATCCTCCTGATGAGAAGTACTAT
ATTAAATATAAACCCATTATGTTAT

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FIGURE 2388

MYELVSKGYLGCTSVFVKQEIQIWTLPGQSRVTWNLLISASGAPGRENFKSDRILYIPFLGTFSPQDSNIMTSVST
QLSLVLMSSLLLVLPVVEAVEAGDAIALLLGVVLSITGICACLG VYARKRNGQM

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FIGURE 2389

GAGTGGCTGTTGAGCGGCGCCGCGGGAGTTCGCGAGGTTTCCCGTGTTCCGACGCGGAGCCGGAGGCCAGCTGAAC
CCGGCCGTGGGATCCCGGATAGGAGGAGGAGGGGACCCATAGGACGCGTTAACATGGACCTGGAAAAACAAAGTGA
AGAAGATGGGCTTAGGTACGAGCAAGGATTGGAGCCCCCTGTTTAAATGCAAAGAAAAATGTGAAGGATTTCG
AACTGCACCTTCTGGAGAAAAATATGTCGTAAGTGTGAGCAAGAGCATGATGTCCTCTTGAGCAATG
AAGAGGATCGAAAAGTGGGAAAACCTTTTGAAGACACCAAGTATACCACTCTGATTGCAAACTAAAGTCAGATG
GAATTCCTATGTATAAACGCAATGTTATGATATTGACGAATCCAGTTGCTGCCAAGAAGAATGTCTCCATCAATA
CAGTTACCTATGAGTGGGCTCCTCCTGTCCAGAATCAAGCATTGGCCAGGCAGTACATGCAGATGCTACCCAAGG
AAAAGCAGCCAGTAGCAGGCTCAGAGGGGGCACAGTACCGGAAGAAGCAGCTGGCAAAGCAGCTCCCTGCACATG
ACCAGGACCCCTCAAAGTGCCATGAGTTGTCTCCAGAGAGGTGAAGGAGATGGAGCAGTTTGTGAAGAAATATA
AGAGCGAAGCTCTGGGAGTAGGAGATGTCAAACCTCCCTGTGAGATGGATGCCCAAGGCCCAACAAATGAACA
TTCCTGGAGGGGATAGAAGACCCCGAGCAGCAGTGGGGGCCATGGAGGACAAATCTGCTGAGCACAAAAGAACTC
AATATTCCTGCTATTGCTGCAAACTGAGTATGAAAGAAGGTGACCCAGCCATCTATGCCGAAAGGGCTGGCTATG
ATAAACTGTGGCACCCAGCTTGTCTGTCTGACACCTGCCATGAACTCCTGGTTGACATGATTATTTTTTGA
AGAATGAGAAGCTATACTGTGGCAGACATTACTGTGACAGCGAGAAACCCGATGTGCTGGCTGTGACGAGCTGA
TATTCAGCAATGAGTATACCGAGGCAGAAAACCAAGATTGGCACCTGAAACACTTCTGCTGCTTTGACTGTGATA
GCATTCTAGCTGGGGAGATATACGTGATGGTCAATGACAAGCCCGTGTGCAAGCCCTGCTATGTGAAGAATCACG
CTGTGGTGTGTCAAGGATGCCACAATGCCATCGACCCAGAAGTGCAGCGGGTGACCTATAACAATTCAGCTGGC
ATGCATCCACAGAGTGCCTTCTGTGCTCTTGTGTCAGCAAATGCCTCATTGGGCAGAAGTTCATGCCAGTAGAAG
GGATGGTTTTCTGTTCAAGTGAATGTAAGAAGAGGATGTCTTAGGAGGAGGGCACCCAGAAGTATCGAGCCATAG
CTATCCAAAGTGGTCTGCATTCTACTGTAAATGCAATTTGAAAAAATAAAACGCAAAAAAGAACTGTAA
GGAAACCAAGAGATTTTGTAAATTTTTTGGCCATTTTTCTTCATCAATTTTTTTCGGTCTCACTTTTAA
CTTGGTTTAAAGCATTTGATTTGTAAAACAGTAAATAATTGTATCTTTCCATAGCTTTCAAATGTGAAATCATTT
TTGGAAGCTTGGATCTCATTAACTTCATGTCTCTATTCCATTTGTGCCACACACTTAAAGTTAGTGTACTGAA
TGGAAAGATGAGCATTCTAGTTCTACACTTCTTTTTTCCCCCTCATGTGTAATGAAAAGAAAACATAATTTG
CCCTAATACCAAGGCGCTACGTTTATTGCCTCGTCTATTCACTGACCTTTGTAATGATACACAGTGAATCTTT
TTGACAAAGAGAAATGCAGTGTAGTATGCAGAGCTGCTGTTTTAATGCCTATGCATTTACTCTTTCCTGATTTAG
GCAGAGGTGGCATTCTTTTATTGCATTTCTCTATTTTTTAAATGTACCTACCTTCAGTATTCTCTTTGTAAGT
TGGTGAATTGCATCTGTGGCCTTGAATATTTTATTATCACATGTGGCATAACAGTATCCACACTTTTTAGTTCTT
TATTTTTTTTTTTTTTATTTTGAGCAATTCTCCTGCCTCAGCCTCCCAAATAGCTGGGATTACAGGTGCATGCCAC
CACACCCAGCTAATTTTTGTATTTTGTAGTAGAGACAGGTTTTACCATGTTAGCCAGGCTGGTCTCAAACCTCTG
ACCTCAGATGATCCGCTGCCTTGGCCTCCCAAAGTGTGGGATTACAGGTGTGGGAGCCACCATGCCCTGACCCA
CACACTTTTTACTTGTATAGATGATTTTTGGCTTGGACATAAAAGCCAAGCCACCCATTGCTTTTAAATCCAAG
AACATGTATAGTTTTTGTACCCAGAGACTATGATTTATATTGATTGCACTTGCCTGCCATGATTTAGATAAGATT
TTTTTGTATGGTTTTTATCTTTCTAATGGATCCTGTTTTATAATACTTCCAAGCCTGTCCATGGATATATCA
AATGTCTTCACTTGTATATTTTCATGGCTAGGTATTCTAATGTTTATCTTCCCTGTGTACTTCTACACATAGC
TATGCACTATGAAAATTAATGGAATGAATGATATGTATATTACTCAAAATAAAGTTTCTTTCACTTT

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FIGURE 2390

MDLENKVKKMGLGHEQGFGAPCLKCKEKCEGFELHFWRKICRNCKCGQEEHDVLLSNEEDRKVGKLFEDTKYTTL
IAKLKSDGIPMYKRNVMILTNPVAAKKNVSINTVTYEWAPPVQNQALARQYMQMLPKEKQPVAGSEGAQYRKKQL
AKQLPAHDQDP SKCHELSPREVKEME QFVKKYKSEALGVGDVKLPCEMDAQGPKQMNIPGGDRSTPAAVGAMEDK
SAEHKRTQYSCYCKLSMKEGDP AIYAERAGYDKLWHPACFVCSTCHELLVDMIYFWKNEKLYCGRHYCDSEKPR
CAGCDELIFSNEYTQAENQNWHLKHFCDFDCDSILAGEIYVMVNDKPVCKPCYVKNHAVVCQGCHNAIDPEVQRV
TYNNFSWHASTECFLCSCCSKCLIGQKFMPVEGMVFC SVECKKRMS

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FIGURE 2391

GGGAGAAACGTTCTCACTCGCTCTCTGCTCGCTGCGGGCGCTCCCCGCCCTCTGCTGCCAGAACCTTGGGGATGT
GCCTAGACCCGCGCAGCACACGTCCGGGCCAACCGCGAGCAGAACAAACCTTTGGCGGGCGGCCAGGAGGCTCC
CTCCCAGCCACCGCCCCCTCCAGCGCCTTTTTTTCCCCCATACAATAACAAGATCTTCCTTCCTCAGTTCCCTT
AAAGCACAGCCCAGGGAAACCTCCTCACAGTTTTTCATCCAGCCACGGGCCAGCATGTCTGGGGGCAAATACGTA
ACTCGGAGGGACATCTCTACACCGTTCCCATCCGGGAACAGGGCAACATCTACAAGCCCAACAACAAGGCCATGG
CAGACGAGCTGAGCGAGAAGCAAGTGTACGACGCGCACACCAAGGAGATCGACCTGGTCAACCGCGACCCCTAAAC
ACCTCAACGATGACGTGGTCAAGATTGACTTTGAAGATGTGATTGCAGAACCAAGGGACACACAGTTTTGACG
GCATTTGGAAGGCCAGCTTCACCACCTTCACTGTGACGAAATACTGGTTTTACCGCTTGCTGTCTGCCCTCTTG
GCATCCCGATGGCACTCATCTGGGGCATTTACTTCGCCATTCTCTCTTTCCCTGCACATCTGGGCAGTTGTACCAT
GCATTAAGAGCTTCCTGATTGAGATTCACTGCATCAGCCGTGTCTATTCCATCTACGTCCACACCGCTCTGTGACC
CACTCTTTGAAGCTGTTGGGAAAATATTAGCAATGTCCGCATCAACTTGCAGAAAGAAATATTAATGACATTT
AAGGATAGAAGTATACCTGATTTTTTTTTCTTTTAAATTTTCTGGTGCCAATTTCAAGTTCCAAGTTGCTAATAC
AGCAACAATTTATGAATTGAATTATCTTGGTTGAAAATAAAAGATCACTTTCTCAGTTTTTCATAAGTATTATGT
CTCTCTGAGCTATTTTCATCTATTTTTTGGCAGTCTGAATTTTTTAAACCCATTTAAATTTTTTCTTACCTTTT
TATTTGCATGTGGATCAACCATCGCTTTATTGGCTGAGATATGAACATATTGTTGAAAGGTAATTTGAGAGAAAT
ATGAAGAACTGAGGAGGAAAAAAAAAAAAAGAAAGAACCAACAACCTCAACTGCCTACTCCAAAATGTTGGTC
ATTTTATGTTAAGGGAAGAATTCCAGGGTATGGCCATGGAGTGTAAGTATGTGGGCAGATTTTCAGCAAACCTC
TTTTCCCACTGTTTAAAGGAGTTAGTGGATTACTGCCATTCACTTCATAATCCAGTAGGATCCAGTGATCCTTACA
AGTTAGAAAACATAATCTTCTGCCTTCTCATGATCCAACATAATGCCTTACTCTTCTTGAAATTTTAACTATGAT
ATTTTCTGTGCCTGAATATTTGTTATGTAGATAACAAGACCTCAGTGCCTTCTGTTTTTTACATTTTCTTTTC
AAATAGGGTCTAACTCAGCAACTCGCTTTAGGTGAGCAGCCTCCCTGAAGACCAAAATTAGAATATCCATGACCT
AGTTTTCCATGCGTGTCTGACTCTGAGCTACAGAGTCTGGTGAAGCTCACTTCTGGGCTTCATCTGGCAACAT
CTTTATCCGTAGTGGGTATGGTTGACACTAGCCCAATGAAATGAATTAAGTGGACCAATAGGGCTGAGCTCTCT
GTGGGCTGGCAGTCCCTGGAAGCCAGCTTTCCCTGCCTCTCATCAACTGAATGAGGTCAGCATGTCTATTAGCTT
CGTTTTATTTTCAAGAATAATCACGCTTTCCCTGAATCCAACTAATCCATCACCGGGGTGGTTTTAGTGGCTCAACA
TTGTTGTTCCCATTTTCAGCTGATCAGTGGGCTCCAGGAGGGGCTGTAAATGGAGGCCATTGTGTGAGCCTATC
AGAGTTGCTGCAAACCTGACCCCTGCTCAGTAAAGCACTTGCAACCGTCTGTTATGCTGTGACACATGGCCCCCTC
CCCCCTGCCAGGAGCTTTGGACCTAATCCAAGCATCCCTTTGCCAGAAAGAAGATGGGGGAGGAGGCAGTAATAA
AAAGATTGAAGTATTTTGTGGAATAAGTTCAAATCTTCTGAACTCAAACCTGAGGAATTTACCTGTAAACCTG
AGTCGTACAGAAAGCTGCCTGGTATATCCAAAAGCTTTTTATCTCTCTGCTCATATTGTGATTCTGCCTTTGGG
GACTTTTCTTAAACCTTCAGTTATGATTTTTTTTTTATACACTTATTGGAACCTGCTTGATTTTTGCCTCTTCC
AGTCTTCTGACACTTTAATTACCAACCTGTTACCTACTTTGACTTTTGCATTTAAACAGACACTGGCATGGA
TATAGTTTTACTTTTAACTGTGTACATAACTGAAAATGTGCTATACTGCATACTTTTAAATGTAAAGATATT
TTATCTTTATATGAAGAAAATCACTTAGGAAATGGCTTTGTGATTCAATCTGTAACTGTGTATTCCAAGACATG
TCTGTTCTACATAGATGCTTAGTCCCTCATGCAATCAATTACTGGTCCAAAAGATTGCTGAAATTTTATATGCT
TACTGATATATTTTACAATTTTTTATCATGCTGCTGTAAAGGTTACAAGCCTGCACAATAAAAATGTTTAAAC
GGTT

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FIGURE 2392

MSGGKYVDSEGHLYTVPIREQGNIYKPNNKAMADELSEKQVYDAHTKEIDLVRDPKHLNDDVVKIDFEDVIAEP
EGTHSFDGIWKASFTTFTVTKYWFYRLLSALFGIPMALIWGIYFAILSFLHIWAVVPCIKSFLIEIQCISRVYSI
YVHTVCDPLFEAVGKIFS NVRINLQKEI

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FIGURE 2393

TTTGTCCGCGAAGGAAGATGGCGGATCTGGAGGAGCAGTTGTCTGATGAAGAGAAGGTGCGTATAGCAGCAAAA
TTCATCATTTCATGCCCTCCTGGAGAATTTAATGAGGTTTCAATGATGTTTCGGTTACTGCTTAATAATGACAAT
CTTCTCAGGGAAGGAGCAGCCCATGCATTTCACAGTATAAAGTTGGACCAGTTTACTCCAGTAAAAATTGAAGGT
TATGAAGATCAGGTATTGATAACAGAACATGGCGACTTGGGAAATGGAAAGTTTTTGGATCCAAAGAACAGAATC
TGTTTTAAATTTGATCACTTAAGGAAGGAGGCAACTGATCCAAGACCCTGTGAAGTAGAAAATGCAGTTGAATCA
TGGAGAACTTCAGTAGAACTGCTCTGAGAGCTTACGTAAAAGAACATTACCCGAATGGAGTCTGCACTGTGTAT
GGCAAAAAAATAGATGGACAGCAAACCATTTATGCATGCATAGAAAGCCATCAGTTCCAAGCAAAAAATTTTGG
AATGGTCGTTGGAGGTCAGAATGGAAGTTTACAATCACTCCTTCAACCACTCAAGTGGTTGGCATCTTGAAAATT
CAGGTTTCATTATTATGAAGATGGTAATGTTTCAGCTAGTGAGTCATAAAGATATACAAGATTCCCTAACAGTGTCT
AATGAAGTGCAAACAGCAAAAGAATTTATAAAGATTGTAGAAGCTGCAGAAAATGAATACCAGACTGCCATCAGT
GAGAATTATCAGACAATGTCGGACACTACTTTCAAAGCCTTACGTCGACAGTTGCCAGTTACACGCACTAAGATT
GATTGGAACAAGATCCTTAGCTACAAGATTGGCAAAGAGATGCAGAATGCATTAAGATGAACATTGCATGACCGGA
TCATTTTAGTGTCTTTGC

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FIGURE 2394

MADLEEQLSDEEKVRIAAKFIIHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFAQYNLDQFTPVKIEGYEDQVL
ITEHGDLGNGKFLDPKNRICFKFDHLRKEATDPRPCEVENAVESWRISVETALRAYVKEHYPNGVCTVYGKKIDG
QQTIIACIESHQFQAKNFWNGRWRSEWKFTITPSTTQVVGILKIQVHYEDGNVQLVSHKDIQDSLTVSNEVQTA
KEFIKIVEAAENEYQTASENYQTMSDTTFKALRRQLPVTRTKIDWNKILSYKIGKEMQNA

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FIGURE 2395

CTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAGGGCCGCGGCCACGT
GCAACCTGTTTCGCTGTACTAACTGTGCCCAGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCAATTCGAAA
CATAGTGGAGGCCGTAGCAGTCAGGGACATTTCTGAAGCAAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTGTA
TGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGCAA
GGACCGAACACCCCCACCCAGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGAGC
TGAGTTCTTAAAGACTGAAGACAGGTTATTCTCTGGAGAAAAATAAAATGGAAATTGTA

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FIGURE 2396

TGGAGCTAAGCTGTTTCCAGGGTGACAGAGTGGCGACCTCGGTGGTCGATTGAGCAGGTCTGAGAATTGTTCCCA
AAGGGTTGTGCGTCACCGAGTCGTTGGCGCTGTCATGGCGGGTGTGCTGAAGAAGACCACTGGCCTTGTGGGATT
GGCTGTGTGCAATACTCCTCACGAGAGGCTAAGAATATTGTACACAAAGATTCTTGATGTTCTTGAGGAAATCCC
TAAAAATGCAGCATATAGAAAGTATACAGAACAGATTACAAATGAGAAGCTGGCTATGGTTAAAGCGGAACCCAGA
TGTTAAAAAATTAGAAGACCAACTTCAAGGCGGTCAATTAGAAGAGGTGATTCTTCAGGCTGAACATGAACATAAA
TCTGGCAAGAAAAATGAGGGAATGGAACTATGGGAGCCATTAGTGGAAAGAGCCTCCTGCCGATCAGTGGAAATG
GCCAATATAATTATTATAAGTGACTTTGGTGTGTTTCATGGGAACTGATGTAATTAAATATTCTGTTATATTAGAG
CGTGTTCCTTATTACTGACATTTTGTAAATCAAGAAAAGTGATATAGAAAATATGTAGGAGACTGTTAAATTTGGTG
ATTATGGTAATATGGTCATGTGAATCAATTTTTGATTTATAAAGTACTCACACAAGTTGTTTCAAAGATGATATT
TCTGTGAACAGAGAGGCCATGGGAAGATTTGAAAATTATTAAAGAAAAATTCCTACAGATTTTCAATGCAGAGAC
CATAATCAAAAAGTAACTTTCTTTAGTAGTATGTTCAATACATCATTAAATTTTTTAAGTTATCCTGAAGAAGG
AAAGGTCCTTAATTATTATAGTCTAAACAAATTTATAGATTACTGTTTGAAGTAAATAATACGAGTGAATATTTT
CAAAATGTGATAAAATAGCACAAAGTGGCTGGTGATAAAATTTGAAATTATGGTTAACCTCAGCTGTGATCTTATGT
ATGTAAAGTGAATTTAAATAGATAATTATAGGTTGATTACAAATCCATAGTGTCAATTTTATTTTAGTCATTAT
TGAATTATACCATTTACTCTGTTTTCTTATAGTCTTAATTTTATTATATTTTGTGTTACTGTATTATATTTGAA
AACCTTCAAATTAGAATACATTGTACAGTTAAAGAAATTGACTTGGTACTTAAAAGAAAGATTCCCATTGCATA
CAGGTTATTGGAGAAATTTTCCTTTTGTGTCATTTGTGGAAGTTAGTTTTCTGGCCCGTGGCCTTTAATTTTCTT
AATCAACCTAATTACATCAGGATAGAGGTAGAGTTTCTGTAAAAGAAGAGACATTAAGAGTTCCTGAAATTTATA
TCTGGCATAACCGATAGGCTTATATTCAAAACATCTTAGTCATACGACCATAAATTAAAAGTGGAGTCACTAAATA
GTTTGCAGTACGTTTCTAATATAAGTGTAGGTGGGTATCAAAACAAGACAAATGCTGTTTCAGGGAAAGAAGTTGG
CAAGCTTAAGGTTAAACAAAAATAAAATTACATGTGTTTTTCGCCTTCCTA

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FIGURE 2397

MAGVLKKTITGLVGLAVCNTPHERLRILYTKILDVLEEIPKNAAYRKYTEQITNEKLAMVKAEPDVKKLEDQLQGG
QLEEVILQAEHELNLRKMRWKLWEPLVEEPPADQWKWPI

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FIGURE 2398

CCGCGTCGGTGCCCGCGCCCCCTCCCCGGGCCCCGCCATGGGCCTCACCGTGTCGCGCTCTTTTCGCGGATCTTC
GGGAAGAAGCAGATGCGGATTCTCATGGTTGGCTTGGATGCGGCTGGCAAGACCACAATCCTGTACAACTGAAG
TTGGGGGAGATTGTCAACCACCATCCCAACCATAGGCTTCAATGTAGAAACAGTGGAATATAAGAACATCTGTTTC
ACAGTCTGGGACGTGGGAGGCCAGGACAAGATTGGGCCTCTGTGGCGGCACTACTTCCAGAACACTCAGGGCCTC
ATCTTTGTGGTGGACAGTAATGACCGGGAGCGGGTCCAAGAATCTGCTGATGAACTCCAGAAGATGCTGCAGGAG
GACGAGCTGCGGGATGCAGTGCTGCTGGTATTTGCCAACAAGCAGGACATGCCCCACGCCATGCCCGTGAGCGAG
CTGACTGACAAGCTGGGGCTACAGCACTTACGCAGCCGCACGTGGTATGTCCAGGCCACCTGTGCCACCCAAGGC
ACAGGTCTGTACGATGGTCTGGACTGGCTGTCCCACGAGCTGTCAAAGCGCTTAACCAGCCAGGGGCAGGCCCTTG
ATGCCCCGAAGCTCCTGCGTGTCATCCCCGGGATGACCAGACTCCCGGACTCCTCAGGCAGTGCCCTTTCTCTCCA
CTTTTCCTCCCCATAGCCACAGGCCTCTGCTCCTGCTCCTGCCTGCATGTTCTCTCTGTTGTTGGAGCCTGGAG
CCTTGCTCTCTGGGCACAGAGGGGTCCACTCTCCTGCCTGCTGGGACCTATGGAAGGGGCTTCTGGCCAAGGCC
CCCTCTTCCAGAGGAGGAGCAGGGATCTGGGTTTCCTTTTTTTTTTCTGTTTTGGGTGTACTCTAGGGGCCAGGT
TGGGAGGGGGAAGGTGAGGGCTTCGGGTGGTGCTATAATGTGGCACTGGATCTTGAGTAATAAATTTGCTGTGGT
TTG

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FIGURE 2399

MGLTVSALFSRIFGKKQMRILMVGLDAAGKTTILYKLLGEIVTTIPTIGFNVETVEYKNICFTVWDVGGQDKIR
PLWRHYFQNTQGLIFVVDSDNRERVQESADELQKMLQEDEL RDAVLLVFANKQDMPNAMPVSELTDKLGLQHLRS
RTWYVQATCATQGTGLYDGLDWLSHELKSR

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FIGURE 2400

GCAGTAGAACGTGTGGCGGCGGCGGAGATCGCGTCTCTTTTCGCTCCGTGTCCCGCTGCTGCTCCTGTGAGCGCC
CGGCGAGTCCGTCCCGTCCACCGTCCGCAGCTGGTAGCCAGCCTGCCCCTCGCCTCGACTCCCTTTACCAACAC
CGACACCCACATTGACACCTCCAGTCCGGCCAGCCGCTCCACTCGTTGCCTTTGCATCTCCACACATGGCGTCCT
CCGCGCAGAGCGGCGGCTCCTCCGGGGACCCGCGGTCCCCACCGTGCAGCGGGGCATCATCAAGATGGTCCTCT
CAGGGTGCGCCATCATTGTCCGAGGTACAGCTCGTGGTGGGCCTCCTCTGAGCGGCAGATCAACCTCAGCAACA
TTCGTGCTGGAATCTTGCTCGCCGGGCAGCCGCCACACAACCTGATGCAAAGGATACCCCTGATGAGCCCTGGG
CATTTCAGCTCGAGAGTTCTTCGAAAGAAGCTGATTGGGAAGGAAGTCTGTTTCACGATAGAAAACAAGACTC
CCCAGGGGCGAGAGTATGGCATGATCTACCTTGGAAGATACCAATGGGGAAAACATTGCAGAATCACTGGTTG
CAGAGGGCTTAGCCACCCGGAGAGAAGGCATGAGAGCTAATAATCCTGAGCAGAACCGGCTTTCAGAATGTGAAG
AACAAGCAAAGGCAGCCAAGAAAGGGATGTGGAGTGAGGGGAACGGTTCACATACTATCCGGGATCTCAAGTATA
CCATTGAAAACCCAAGGCACTTTGTGGACTCACACCACCAGAAGCCTGTTAATGCTATCATCGAGCATGTGCGGG
ACGGCAGTGTGGTCAGGGCCCTGCTCCTCCAGATTACTACCTGGTTACAGTCATGCTGTGAGGCATCAAGTGCC
CAACTTTTCGACGGGAAGCAGATGGCAGTGAACTCCAGAGCCTTTTGCTGCAGAAGCCAAATTTTTCTACTGAGT
CGCGACTGCTTCAGAGAGATGTTGAGATCATTCTGGAGAGCTGCCACAACCAGAACATTCTGGGTACCATCCTTC
ATCCAAATGGCAACATCACAGAGCTCCTCCTGAAGGAAGGTTTCGCACGCTGTGTGGACTGGTCGATTGCAGTTT
ACACCCGGGGCGCAGAAAAGCTGAGGGCGGCAGAGAGGTTTGCCAAAGAGCGCAGGCTGAGAATATGGAGAGACT
ATGTGGCTCCCAAGCTAATTTGGACCAAAAGGACAAGCAGTTTGTGCAAGGTGATGCAGGTTCTGAATGCTG
ATGCCATTGTTGTGAAGCTGAACTCAGGCGATTACAAGACGATTACCTGTCCAGCATCCGACCACCGAGGCTGG
AGGGGGAGAACACCCAGGATAAGAACAAAGAACTGCGTCCCCTGTATGACATTCTTACATGTTTGAGGCCCGGG
AATTTCTTCGAAAAAGCTTATTGGGAAGAAGGTCAATGTGACGGTGGACTACATTAGACCAGCCAGCCAGCCA
CAGAGACAGTGCCTGCCTTTTCAGAGCGTACCTGTGCCACTGTACCATTTGGAGGAATAAACATTGCTGAGGCTC
TTGTGAGCAAAGGTCTAGCCACAGTGATCAGATACCGGCAGGATGATGACCAGAGATCATCACTACGATGAAC
TGCTTGCTGCAGAGGCCAGAGCTATTAAGAAATGGCAAAGGATTGCATAGCAAGAAGGAAGTGCCTATCCACCGTG
TTGCAGATATATCTGGGGATACCCAAAAAGCAAAGCAGTTCCTGCCTTTCTTCAGCGGGCAGGTCGTTCTGAAG
CTGTGGTGGAAATACGTCTTCAGTGGTTCTCGTCTCAAACCTCTATTTGCCAAAGGAACTTGCTTATCACCTTCT
TGCTTGACAGGCATTGAATGCCCCAGAGGAGCCCGAAACCTCCCAGGCTTGGTGCAGGAAGGAGAGCCCTTCAGCG
AGGAAGCTACACTTTTCACCAAGGAAGTGGTGTGCAGCGAGAGGTGGAGGTGGAGGTGGAGAGCATGGACAAGG
CCGGCAACTTTATCGGCTGGCTGCACATCGACGGTGCCAACCTGTCCGTCTGCTGGTGGAGCACGCGCTCTCCA
AGGTCCACTTACCGCCGAACGCAGCTCCTACTACAAGTCCCTGCTGTCTGCCGAGGAGGCCGAAAGCAGAAGA
AAGAGAAGGTCTGGGCCCCACTATGAGGAGCAGCCGTGGAGGAGGTGATGCCAGTGCTGGAGGAGAAGGAGCGAT
CTGCTAGCTACAAGCCCGTGTGTTGTGACTGAGATCACTGATGACCTGCACTTCTACGTGCAGGATGTGGAGACCG
GCACCCAGTTGGAGAAGCTGATGGAGAACATGCGCAATGACATTGCCAGTCACCCCTGTAGAGGGCTCCTATG
CCCCCGCAGGGGAGAGTTCTGCATTGCCAAATTTGTAGATGGAGAATGGTACCGTCCCGGATAGAGAAAGTCG
AGTCTCCTGCCAAAATACATGTCTTCTACATTGACTACGGCAACAGAGAGGTCTGCCATCCACCCGCTGGGTA
CCCTATCACCTGCCTTCAGCACTCGGGTGCTGCCAGCTCAAGCCACGGAGTATGCCCTTCGCCTTCATCCAGGTGC
CCCAAGATGATGATGCCCGCACGGACGCCGTGGACAGCGTAGTTCGGGATATCCAGAACACTCAGTGCCTGCTCA
ACGTGGAACACCTGAGTGCCGGCTGCCCCATGTACCCCTGCAGTTTGCAGATTCCAAGGGCGATGTGGGGCTGG
GCTTGGTGAAGGAAGGGCTGGTCTATGGTGGAGGTGCGCAAGGAGAAACAGTTCCAGAAAGTGATCAGAAATACC
TGAATGCCCAAGAGTCAGCCAAGAGCGCCAGGCTGAACCTGTGGCGCTATGGAGACTTTCGAGCTGATGATGCAG
ACTGCCCTCGTCCCAGCTCTCTGTCCAACCTGTTGATTATGTGATTTTCTGATACGTCCATTCTCAAATGCCAGT
GTGTTACATCTTCGCTCTGGCCAGCCATTCTGTATTTAAAGCTTTTGAGGCCAATAAAATAGTACGTGCTGT
C

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FIGURE 2401

MASSAQSGSSGGPAVPTVQRGIIKMLVSGCAIIVRGQPRGGPPPERQINLSNIRAGNLARRAAATQPDAKDTPD
EPWAFPAREFLRKKLIGKEVCFTIENKTPQGREYGMIIYLGKDTNGENIAESLVAEGLATRREGMRANNPEQNRLS
ECEEQAKAAKGMWSENGSHTIRDLYTIENPRHFVDSHHQKPVNAIIHVVDGSDVVRALLLPDYLLVTVMLSG
IKCPTFRREADGSETPEPFAAEAKFFTESRLLQRDVQIILESCHNQNILGTILHPNGNITELLKEGFARCVDS
IAVYTRGAEKLRAAERFAKERRLRIWRDYVAPTANLDQKDKQFVAKVMQVLNADAIVVKLNSGDYKTIHLSSIRP
PRLEGENTQDKNKKLRPLYDIPYMFAREFLRKKLIGKKVNVTVDYIRPASPATETVPASFERTCATVTIGGINI
AEALVSKGLATVIRYRQDDQDQSSHYDELLAAEARAIKNGKGLHSKKEVP IHRVADISGDTQKAKQFLPFLQRAG
RSEAVVEYVFGSRLKLYLPKETCLITFLLAGIECPRGARNLPGLVQEGEPFSEEATLFTKELVLQREVEVEVES
MDKAGNFIGWLHIDGANLSVLLVEHALSKVHFTAERSSYYKSLLSAEEAAKQKKEKVWAHYEEQPVEEVMPVLEE
KERSASYKPVFVTEITDDLHFYVQDVETGTQLEKLMENMRNDIASHPPEGSYAPRRGEFCIAKFVDGEWYRARV
EKVESPAKIHVFYIDYGNREVL PSTRLGTLSPAFSTRVLPAQATEYAFAFIQVPQDDDARTDAVDSVVRDIQNTQ
CLLNVEHLSAGCPHVTLQFADSKGDVGLGLVKEGLVMVEVRKEKQFQKVITEYLNQESAKSARLNLWRYGDFRA
DDADCPRPSSLSNC

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FIGURE 2402

TCGGAAGGGGCCAGGAGACACTGGAAGGTCCGGACGGCAGGGAAGGGGACGGGGTTCTTTCCAGTCCCACCCGTG
TAGGGACACCTCTCCCCCTCATCCCCCGATGTACCCTCGCTGAATCTGGGATGGGAGAGACGAACCGAGTCTAGG
CATCTGCGTAGCAGCGCCGGGAGAGCGGGGAGCCCAGGGCGGAGCCAGTCCGACTCCCGGATTCCCTGCCCCG
CCCCCGGCACGAGGCCCGCCCGGGCGGCCCGCCCTCCTCGGGACTCGACCGGGCTGCGCTCACTGCCACGCC
GGGGCCCCGGGAGCCTCCAGGCTCCCGCCCCGCTGAGCTGCGGCCTCCGCATGGAGGGGCCACTCACTCCACCA
CCGCTGCAGGGAGGCGGAGCCCGCGCTGTTCCGGAGCCCGGAGCCCGGAACACCCGGGACACGAGACGGCGGCG
CAGCGGTACAGCGCCCGACTGCTGCAGGCCGGCTACGAGCCCGAGAGCCCTAGATTGGACCTCGCTACACACCCG
ACGACACCCCGTTTCAAGAACTATCTTCAGTGGTCTTACTGGCAGGTGTTGGTGTCCAGATGGATCGCCTTCGCAGG
GCTAGCATGGCGGACTACCTGATCAGCGGCGGCACCGGCTACGTGCCGAGGATGGGCTACCGCGCAGCAGCTC
TTCGCCAGCGCCGACGGCCCTACCTACAACGACTTCCTGATTCTCCAGGATTCATAGACTTCATAGCTGATGAG
GTGGACCTGACCTCAGCCCTGACCCGGAAGATCAGCTGAAGACGCCACTGATCTCCTCCCCCATGGACACTGTG
ACAGAGGCTGACATGGCCATTGCCATGGCTCTGATGGGAGGTATTGGTTTCATTACCCACAACCTGCACCCAGAG
TTCCAGGCCAACGAGGTGCGGAAGGTCAAGAAGTTTGAACAGGGGTTTCATCACGGACCCCTGTGGTGTGAGCCCC
TCGCACACTGTGGGCGATGTGCTGGAGGCCAAGATGCGGCATGGCTTCTCTGGCATCCCCATCACTGAGACGGGC
ACCATGGGCAGCAAGCTGGTGGGCATCGTCACCTCCCGAGACATCGACTTCTTGCTGAGAAGGACCACACCACC
CTCCTCAGTGAGGTGATGACGCCAAGGATTGAACGGTGGTGGCTCCAGCAGGTGTGACGTTGAAAGAGGCAAAT
GAGATCCTGCAGCGTAGCAAGAAAGGGAAGCTGCCTATCGTCAATGATTGCGATGAGCTGGTGGCCATCATCGCC
CGCACCGACCTGAAGAAGAACCAGACTACCTCTGGCCTCCAAGGATTCACAGAAGCAGCTGCTCTGTGGGGCA
GCTGTGGGCACCCGTGAGGATGACAAATACCGTCTGGACCTGCTACCCAGGCGGGCGTCGACGTCATAGTCTTG
GACTCGTCCCAAGGGAATTTCGGTGTATCAGATCGCCATGGTGCATTACATCAAACAGAAGTACCCCCACCTCCAG
GTGATTGGGGGGAACGTGGTGACAGCAGCCCAGGCCAAGAACCTGATTGATGCTGGTGTGGACGGGCTGCGCGTG
GGCATGGGCTGCGGCTCCATCTGCATCACCCAGGAAGTGATGGCCTGTGGTTCGGCCCCAGGGCACTGCTGTGTAC
AAGGTGGCTGAGTATGCCCCGGCGCTTTGGTGTGCCCATCATAGCCGATGGCGGCATCCAGACCGTGGGACACGTG
GTCAAGGCCCTGGCCCTTGGAGCCTCCACAGTGATGATGGGCTCCCTGCTGGCCGCCACTACGGAGGCCCTGGC
GAGTACTTCTTCTCAGACGGGGTGC GGCTCAAGAAGTACCGGGGCATGGGCTCACTGGATGCCATGGAGAAGAGC
AGCAGCAGCCAGAAACGATACTTCAGCGAGGGGGATAAAGTGAAGATCGCGCAGGGTGTCTCGGGCTCCATCCAG
GACAAAGGATCCATTCAAGAGTTCGTGCCCTACCTCATAGCAGGCATCCAACACGGCTGCCAGGATATCGGGGCC
CGCAGCCTGTCTGTCTTCGGTCCATGATGTACTCAGGAGAGCTCAAGTTTGAGAAGCGGACCATGTGCGGCCAG
ATTGAGGGTGGTGTCCATGGCCTGCACTCTTACGAAAAGCGGCTGTACTGAGGACAGCGGTGGAGGCCGAGGTGG
TGGAGGGGATGCACCCAGTGTCCACTTTTGGGCACAGCCTCCCTCCATAACTGAGTGGTCCACAGATTTCACCT
ACGGGTTCTCCAGCTCCTTTCCAGGCAGAGAGGAGGGGAGGTCTGAGGGGACTGCTGCCCCCTCACTCGGCATCC
CCTGCAGAGTCAGGACTGCTCCCGGGGCCAGGCTGCCCTGGGAGCCCCCTCCGAGCCAGCCAGCCAGGCTCTC
AGGCCCTGCGCCTGCCTCAGGTCTTTCTTGCTGCAGCCTGCTCCAGCCTGGCCCCACCCAGGGGCAGGCGGCC
CCTCCTGGCTTCTCCTGTAGGGCACCTCCCTGCCCTAGCCTCCAGGAAATGGTGTCTCCTGGCCCTGCCTCT
GGCCCTTCCCGGGCCGCTGCCCTCAGCCATGTGGCACTTCTGAGCTCCTGACCTAGGCCAAGGGGAGGTCTCTG
CCCCCTTCCCGGGCCCTGGGCTACCCTTGGGTCTGCTCCTCAGGCCGCTCCCTGTCCCTGGCCATGGGTAGGA
GACTGCCCTGGTCAAGGCCGCTGCCTGTCTCCTGACTCACCACCGTCCCGAGGTGAACCATTCCTCCCTTCT
CCTCAGCTGCAGTCGAAGGCTTTAACTTTGCACACTTGGGATCACAGTTGCGTCATTGTGTATTAAATACTTGA
ATAAATCAAGCAGGT

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FIGURE 2403

TTTCAGCCCCAGCCCCGGACCCTGCAGCCGCAGAGATGTTGACGCCTAAGAAGAACCGGATTGCCATTTATGAA
CTCCTTTTTTAAGGAGGATGGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCAGAGCTGGCAGACAA
GAATGTGCCCCAACCTTCATGTCATGAAGGCCATGCAGTCTCTCAAGTCCCGAGGCTACGTGAAGGAACACTTTGC
CTGGAGACATTTCTACTGGTACCTTACCAATGAGGGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCGGA
GATTGTGCCTGCCACCCTACCCCGTAGCCGTCCAGAGACTGGCAGACCTTGGCCTAAAGGTCTGTATGTGAGGAG
TGCTGTGCTACCTGGTGGCGACAAGAAAGCCGAGGCTGGGGCTGGGTGAGCAACCGAATTCTAGTTTAGAGGCGG
ATTTGGTCGTGGACGTGGTCAGCCACCTCAGTAAAACCTGGAGAGGATTCTTTTGCATTGAATAAACTTACAGCCA
AAAAA

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FIGURE 2404

TGGGATTACAGGTAAGTGCCACCACACCCAGCTGATTTTTGTGTTTTTTGTAGAGACGAGGTTTCGCCATGTTTC
CCAGACTGTTCTCAAACCTCTGAGCTCAAAGCAGTCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGTG
TGAGCCACCTTGCTCATTCTAGTTTAACTTTGGAGTGGTTTGTGTCTCCTGATTGGACTCCTGCAAATACAGAA
TTGATGCTAGGAAGGTACCAGGAGATAGACGCACACAGATGGGATTTGGGAATAGGTTTGGTTATCCAAGGAGC
AGTGCTGAGCTCCTTGCTAATGGGATATGGGATGCTGGTGATTTCAGTAAGTGACCTCAAATTACTCAGGCTA
CCACATACTGTTGATTGTGATGAAATGCCAGTTGAAGCACCTGTCCTGCGAGCTTAGGGGTGCTACAAGTTGACC
ACTGCAGCAGTAAAGATGACTCTGAAGAATGGCATGGGATGGATCCTTTTGAATGCACTTGAGCAGCGGTCTCCA
ACCACAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACCTCTGAATCCAGGAAGAGAGACTGACTGAGCA
ACATGTTATTTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTAAGACGCCCACTGATTCTACATTATGCTCC
TACCTCCCGGCAGCCTCTCCAGGCCCAGAACTTTCTCCAATCAGCCTCTACAGACCAAGCTCATGACTCACAATG
GCCTATTTAGGCCCATACCTACGTACGGCAGTCTCCGCAGATGAGCCTACTGCCCCACAACAGCCTCCACAGG
CACAGCTCCATCGTTACATGGCCTCTTTAGACCCAGCTCCTGCCTCCAGCCTTCTCTCCAGGCCCTGAACTTT
CTCAAGTCGACCTCACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGC
CCCTCCAGGCCCAGCCTCTGCCTCCCGTCGGCCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTCACGCC
CAGCATCTGCCTCACTGTGGACCCCCAAGCCAAGCTCCCAACCTTTTCAGCAGCTTCTACACACCCAGCTCCTGC
CACCCAGTGGCCTCTTTAGGCCAAGCTCATGCTTCACAAGGGCCTTTCCAGGCCCAACTTTTGTCTCATGGCAAC
CTTCCCTGGCCAGATTCTTGCTGTCTCCAGCAGCCTAGACAGGCCCAGGGCCTCTCTACATGCAGCTTATGCC
TCACGGTGGCCTCTCCAGGCCCAACTCCTGTCCAGGACGTCTCTCCGGGCCCAAACTTACTCAAGTCAGACT
CTGTAGTCCCAACTGCTGCCTCCTGGTGGCCTATGAAGGCCCAAAATCTCCTCAAGTTGACCTTTCCAGGCCCAG
CTCCTGCCTCCTGTGACGCTCTACAGGCCCAACCTCTACGTGATGGGGGCTTCTCCAGGCCCACCCTCTCCTCTT
GGCTGGGTCTACAGGCACAACCTGCTGCCTCACAACAGCCTTTTTTGGCCCAGTTCTGTCCAGCTCATGGCGGCC
AATGTAGGCCCAAACTTCCTCAAGTCAAACCTCTCCAGGCCCACCCTCTGCTTCCCAGTGGCATGAACAGGCCCA
GCTTTGACTTGAGAACAGCCTCTGCAGGCCCTGCTCTTGCTCCAGGGGCTTTTCCAGGCCCAGCTCTTGCT
CATGGCAGCTGCCCCAGGCCAAATTTCTGCCTGCCTGCCAGCAGCCTCAACAGGCATAGCTCCTCCCTCACAGTG
GCCATTTAGGCCCAACTCATGACTGTGCGGCCATTTCCAGGCCTAGTGCCTGCCTCGTGGCTGACTCTTGAAGC
CCAAAACCTTCCTCAAATCAGCCTTTTGCCCAACTTCTGTCTACTGTGCGACTCTACAGGCCAGCCTCTGCCTCAC
AGTGGACCCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGTCGAAGCTCCTGCCTTTTGGCAGCCTCTC
CAGGCCCAGCTCCTCCTGCCTCCAGTGGCCTCTTTCGGCCAGC

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FIGURE 2405

MLLPGSLSRPRTFSNQPLQTKLMTHNGLFRPIPYVTAVSADEPTAPQQPPQAQLHRYNGLFRPSSCLPAFSPGP
ELSQVDLTRPSSCFFAASPGPAPASWWPLQAQPLPPVGLYSPNICLTADSSRPASASLWTPQAKLPTFQQLLHTQ
LLPPSGLFRPSSCFTRAFPGPFTFVSWQPSLARFLPVSQQPRQAQGLSTCSLCLTVASPGPTPVPGRHLRAQNLLK
SDSVVPTAASWWPMKAQNLLKLTFPGPAPASCQRLQAQPLRHGGFSRPTSSSWLGLQAQLLPHNSLFWPSSCPAH
GGQCRPKTSSSQTLQAHL LLPSGMNRPSFDLRTASAGPALASQGLFPGPALASWQLPQAKFLPACQQPQQA

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FIGURE 2406

TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
AGACGCCCCTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAAATGGAAATA
AAGTGCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAATCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATAACCTACGTCAC
GGCAGTCTCCGCAGATGAGCCTACTGCCCCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCCAGCCTCTGCCTCCCGT
CGGCCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTCACGCCCAGCATCTGCCTCACTTGGACCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGTCGAAGCTCCTGCCTTTTCGGCAGCCTCTCCAGGCCCAGCTCCT
CCTGCCTCCCAGTGGCCTCTTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCAGCCTCTGC
CTCACAGCGGACTCTC

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FIGURE 2407A

AGCCCAAACCGCGGCCCTAGCCCCGGCCGACCCCCAGCCCGCGCCAGCATGATGAACAACAGCGGCTACTCAGA
CGCCGGCCTCGGCCTGGGCGATGAGACAGACGAGATGCCGTCCACGGAGAAGGACCTGGCGGAGGACGCGCCGTG
GAAGAAGATCCAGCAGAACACATTACGCGCTGGTGCAATGAGCACCTCAAGTGCGTGGGCAAGCGCCTGACCGA
CCTGCAGCGCAGCTCAGCGACGGGCTCCGGCTCATCGCGTGCTCGAGGTGCTCAGCCAGAAGCGCATGTACCG
CAAGTTCCATCCGCGCCCCAACTTCCGCCAAATGAAGCTGGAGAACGTGTCCGTGGCCCTCGAGTTCCTCGAGCG
CGAGCACATCAAGCTCGTGTCCATAGACAGCAAGGCCATCGTGGATGGGAACCTGAAGCTGATCCTGGGCCTGAT
CTGGACGTGATCCTGCACTACTCCATCTCCATGCCATGTGGGAGGATGAAGATGATGAGGATGCCCGCAAACA
GACGCCAAAGCAGCGGCTGCTTGGCTGGATCCAGAACAAGGTGCCCCAGCTGCCCATCACCAACTTCAACCGTGA
CTGGCAGGACGGCAAAGCTCTGGGCGCCCTGGTGGACAACCTGCGCCCCCGGTCTCTGCCCCGACTGGGAGGCCTG
GGACCCCAACAGCCCGTGGAGAACGCCCGGGAGGCCATGCAGCAGGCCGACGACTGGCTTGGGGTGCCCCAGGT
CATTGCCCTGAGGAGATTGTGGACCCCAACGTGGATGAGCATTCTGTTATGACCTACCTGTCCAGTTCGCCAA
GGCCAAGTCAAACCTGGTGCCCTGTTCGATCCAAGCAGCTGAACCCCAAGAAAGCCATCGCCTATGGGCCTGG
CATCGAGCCACAGGGCAACACCGTGTGCAGCCTGCCCACTTCACCGTGCAGACGGTGGACGCGGGCGTGGGCGA
GGTGTCTGGTCTACATCGAGGACCTGAAGGCCACACCGAGGAGGCTAAGGTGGTTCCCAACAATGACAAGGATCG
CACCTATGTGTCTCTCTATGTGCCCAAGGTGCGTGGGTTACACAAGGTGACCGTGTCTTTGCTGGCCAGAACAT
TGAACGCAGTCCCTTTGAGGTGAACGTGGGCATGGCCCTGGGAGATGCCAACAAGGTGTAGCCCGTGGCCCTGG
CCTGGAACCTGTGGGCAATGTGGCCAACAAACCCACCTACTTTGACATCTACACTGCGGGGGCGGGCACTGGCGA
TGTTGCTGTGGTGATCGTGGACCCACAGGGCCGGCGGGACACAGTGGAGGTGGCCCTGGAGGACAAGGGTGACAG
CACGTTCCGTGTCACATACAGACCTGCCATGGAGGGGCCACATACCGTGCATGTGGCCTTTGCGGGTGCCCCAT
CACCCGCAGTCCCTTCCCTGTCCATGTGTGCGGAAGCCTGTAACCCCAACGCCTGCCGCGCCTCTGGGCGAGGCCT
GCAGCCCAAGGGTGTTGCGGTGAAGAGGTGGCTGACTTCAAGGTGTTTACCAAGGGTGCCGGCAGCGGGGAGCT
CAAGGTACCGGTCAAGGGGCCAAAGGGCACAGAGGAGCCAGTGAAGGTGCGGGAGGCTGGGGATGGTGTGTTTGA
GTGCGAGTACTACCCGGTGGTGCCTGGGAAGTATGTGGTGACCATCACGTGGGGCGGCTACGCCATCCCTCGCAG
CCCCTTTGAGGTACAGGTGAGCCAGAGGCAGGAGTGCAAAAGGTCCGGGCCTGGGGTCTGGTTTGGAGACTGG
CCAGGTGGGCAAGTCAGCCGATTTTGTGGTGAAGCCATTGGCACCGAGGTGGGGACACTGGGCTTCTCCATCGA
GGGGCCCTCACAAGCCAAGATCGAATGTGACGACAAGGGGGATGGCTCCTGCGATGTGCGGTACTGGCCACGGA
GCCTGGGGAGTACGCTGTGCACGTCTGTGTGACGATGAGGACATCCGAGACTCACCTTCATTGCCACATCCT
GCCCCCCCCACCTGACTGCTTCCCAGATAAGGTGAAGGCCTTTGGGCCTGGCCTGGAGCCTACCGGCTGCATCGT
GGACAAGCCCGCTGAGTTACCAATTGATGCTCGTGCAGCTGGCAAGGGAGACCTGAAGCTCTATGCCCAGGACGC
CGACGGCTGTCCCATCGACATCAAGGTGATCCCCAACGGCGACGGCACCTTCCGCTGCTCCTACGTGCCACCAA
GCCCATTAAAGCACACCATCATCATCTCCTGGGGAGGCGTAAACGTGCCCAAGAGCCCTTCCGGGTGAACGTGGG
CGAGGGCAGCCACCCCGAGCGGGTAAAGGTGTACGGCCCCGAGTGGAGAAACAGGCCCTCAAGGCCAATGAGCC
CACCTACTTCACGGTGGACTGCAGCGAGGCGGGGCAAGGCGACGTGAGCATCGGCATCAAGTGCGCCCCAGGCGT
GGTGGGCCCTGCAGAGGCTGACATTGACTTCGACATCATCAAGAATGACAACGACACCTTCACCGTCAAGTACAC
GCCACCAGGGGCGGGCCGCTACACCATCATGGTGTGTTTGCCAACCAGGAGATCCCCGCCAGCCCTTCCACAT
CAAGGTGGACCCATCCCACGATGCCAGCAAAGTCAAGGCCGAGGGCCCTGGGCTGAATCGCACAGGTGTGGAAGT
CGGGAAGCCCAACCACTTCACGGTGTGACCAAGGGAGCCGGCAAGGCCAAGCTGGATGTGCAGTTTGCAGGGAC
AGCCAAGGGCGAGGTTGTGCGGGACTTTGAGATCATAGACAACCATGACTACTCCTACACTGTCAAGTACACCGC
TGTCCAGCAGGGCAACATGGCAGTGACAGTGACTTATGGCGGGGACCCTGTCCCAAGAGCCCTTTGTGGTGAA
TGTGGCACCCCCGCTGGACCTCAGCAAAATCAAAGTTCAGGGCCTTAATAGCAAGGTGGCTGTGGGACAGGAACA
AGCATTCTCTGTGAACACACGAGGGGCTGGCGGTGAGGGCCAAGTGGATGTGCGGATGACTTCGCCCTCTCGCCG
GCCCATCCCTGCAAGCTGGAGCCAGGCGGTGGAGCGGAAGCCCAGGCTGTGCGCTACATGCCCCGGAGGAGGG
GCCCTACAAGGTGGATATCACCTACGATGGTCACCCGGTGCTGGCAGCCCGTTTGCTGTGGAGGGTGTCTGCC
CCCTGATCCCTCCAAGGTCTGTGCTTATGGCCCGGGTCTCAAGGTGGACTGGTAGGCACCCCGCGCCATTCTC
CATCGACACCAAGGGGGCTGGCACAGGTGGCCTGGGGCTGACCGTAGAGGGCCCTGCGAGGCCAAGATCGAGTG
CCAGGACAATGGTGATGGCTCATGTGTGTGCTGCTACCTGCCCACGGAGCCTGGCGAGTACACCATCAACATCCT
GTTTGCTGAGGCCACATCCCTGGCTCGCCCTTCAAAGCCACCATTCGGCCTGTGTTTGACCCGAGCAAGGTGCG
GGCCAGTGGACCGGCCTGGAGCGCGGCAAGGTGCGTGAGGCAGCCACCTTCACTGTGACTGCTCAGAGGCAGG

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FIGURE 2407B

CGAGGCGGAGCTGACCATTGAGATCCTGTGCGGATGCCGGGGTCAAGGCCGAGGTGCTGATCCACAACAACGCGGA
TGGCACCTACCACATCACCTACAGCCCTGCCTTCCCTGGCACCTACACCATTACCATCAAGTATGGCGGGCATCC
CGTGCCCAAATTTCCCAACCCGTGTCCATGTGTCAGCCTGCGGTCGATACCAGTGGCGTCAAGGTCTCAGGGCCTGG
TGTTGAGCCACACGGTGTCTGCGGGAGGTGACCACTGAGTTCACTGTGGATGCAAGATCCCTAACAGCCACAGG
CGGCAACCACGTGACGGCTCGTGTGCTCAACCCCTCGGGGGCCAAGACAGACACCTATGTGACAGACAATGGGGA
CGGCACCTACCGAGTGCAGTACACCGCTACGAGGAGGGCGTGCATCTGTTGGAGGTCTGTATGATGAGGTGCG
TGTGCCCCAAGAGCCCTTCCGAGTGGCGTGCAGGAGGGCTGTGATCCCAACCCGCGTCCGAGCCTTCGGGCCAGG
CCTGGAGGGTGGCTTGGTCAACAAGGCCAACCGATTCACTGTGGAGACCAGGGGAGCGGGCACCGGGGGCCTTGG
CCTAGCCATCGAGGGTCCCTCGGAAGCCAAGATGTCTGCAAGGACAACAAGGATGGTAGCTGCACCGTGGAGTA
CATCCCCCTTCACTCTGGGAGACTATGACGTCAACATCACCTTCGGGGGGCGGGCCATCCCAGGGAGCCCCGTTCGG
CGTGCCAGTGAAGGATGTGGTGGACCTGGGAAGGTGAAGTGCTCAGGGCCAGGGCTGGGGGCTGGTGTGAGGGC
CCGGGTTCCCTCAGACCTTACAGTGGATTGCAGTCAAGCTGGCCGGGCGCCCCCTGCAGGTGGCTGTGCTGGGCC
CACAGGTGTGGCCGAGCCTGTGGAGGTGCGGGACAATGGAGATGGCACCCACACTGTCCACTACACCCAGCCAC
TGACGGGCCCTACACGGTAGCCGTCAAGTATGCTGACCAGGAGGTGCCACGCAGCCCCCTCAAGATCAAGGTCTCT
CCCAGCTCATGATGCCAGCAAGGTGCGGGCCAGCGGGCCAGGCCTCAACGCCTCTGGCATCCCTGCCAGCCTGCC
TGTGGAGTTACCATCGACGCACGGGACGCGGGCGAGGGGTGCTCACTGTCCAGATCTTGGACCCCGAGGGTAA
GCCCCAAGAAGGCCAACATCCGGGACAATGGGGATGGCACGTACACTGTGCTCTACCTGCCGGACATGAGTGGCCG
GTACACCATCACCATCAAGTATGGCGGTGATGAGATCCCTACTCGCCCTTCCGCATCCATGCTCTGCCACTGG
GGATGCCAGCAAGTGCTCGTACAGTGTCCATTGGAGGCCATGGCCTGGGTGCCTGCCTGGGCCCTCGAATCCA
GATTGGGCAGGAGACGGTGATCACGGTGGATGCCAAGGCAGCCGGTGAGGGGAAGGTGACATGCACGGTGTCCAC
GCCGGATGGGGCAGAGCTCGATGTGGATGTGGTTGAGAACCATGACGGTACCTTTGACATCTACTACACAGCGCC
CGAGCCGGGCAAGTACGTACATACCATCCGCTTCGGGGGTGAGCACATCCCCAACAGCCCCCTCCACGTGCTGGC
GTGTGACCCCCCTGCCGCACGAGGAGGAGCCCTCTGAAGTGCCACAGCTGCCCCAGCCCTACGCTCCTCCCCGGCC
CGGCGCCCCCCCCACACTGGGCCACAGAGGAGCCAGTGGTGCCTGTGGAGCCAATGGAGTCCATGCTGAGGCC
CTTCAACCTGGTCATCCCCCTTCGCGGTGCAGAAAGGGGAGCTCACAGGAGAGGTGCGGATGCCCTCGGGGAAGAC
GGCACGGCCCCAACATCACCGACAACAAGGACGGCACCATCACGGTGAGGTATGCACCCACTGAGAAAGGCCTGCA
CCAGATGGGGATCAAGTATGACGGCAACCACATCCCTGGGAGCCCCCTTACAGTTCTATGTGGATGCCATCAACAG
CCGCCATGTCAAGTGCTATGGGCCAGGCCTGAGCCATGGCATGGTCAACAAGCCAGCCACCTTCACTATTGTAC
CAAAGATGCTGGAGAAGGGGGTCTGTCACTGGCCGTGGAGGGCCCATCCAAGGCAGAGATCACTGTAAAGGACAA
CAAGGATGGCACCTGCACCGTGTCTATCTGCCGACTGCCCTGGAGACTACAGCATCATCGTGCCTTCGATGA
CAAGCACATCCCGGGGAGCCCCCTTACAGCCAAGATCACAGGTGATGACTCCATGAGGACCTCACAGCTGAATGT
GGGCACCTCCACGGACGTGCTCAAGATCACCGAGAGTGATCTGAGCCAGCTGACCGCCAGCATCCGTGCCCC
CTCGGGCAACGAGGAGCCCTGCCTGCTGAAGCGCCTGCCCAACCGGCACATTGGGATCTCCTTACCCCCAAGGA
GGTCCGGGAGCACGTGGTGAGCGTGCGCAAGAGTGGCAAGCATGTACCAACAGCCCCCTTCAAGATCCTGGTGGG
GCCATCTGAGATCGGGGACGCCAGCAAGGTGCGGGTCTGGGGCAAGGGGCTTCCGAGGGACACACATTCCAGGT
GGCAGAGTTTATCGTGACACTCGCAATGCAGGTATGGGGCTTGGGGCTGAGTATTGAAGGCCAAGCAAGGT
GGACATCAACTGTGAGGACATGGAGGACGGGACATGCAAGTCACCTACTGCCCCACCGAGCCCGGCACCTACAT
CATCAACATCAAGTTTGCTGACAAGCACGTGCCTGGAAGCCCCCTTCACTGTGAAGGTGACGGCGAGGGCCGCAT
GAAGGAGAGCATACCCGGCGGAGACAGGCACCTTCCATCGCCACCATCGGCAGCACCTGTGACCTCAACCTCAA
GATCCCAGGAACTGGTTCCAGATGGTGTCTGCCCAGGAGCGCCTGACACGCACCTTACACAGCAGCCACAC
CTACACCCGCACGGAGCGCACGGAGATCAGCAAGACGCGGGGCGGGGAGACAAGCGCGAGGTGCGGGTGGAGGA
GTCCACCCAGGTGCGCGGGGACCCCTTCCCTGCTGTGTTTGGGGACTTCTGGGCGGGGAGCGCTGGGATCCTT
CGGCAGCATACCCGGCAGCAGGAGGTGAGGCCAGCTCTCAGGACATGACTGCACAGGTGACACCCCATCGGG
CAAGGTGGAAGCCGAGAGATCGTCGAGGGCGAGGACAGCGCTACAGCGTGCCTTTGTGCCCAAGGAAATGGG
GCCCCATACGGTCTGTGTAAGTACCGTGGCCAGCACGTGCCCGCAGCCCCCTTTCAGTTCACTGTGGGGCCGCT
GGGTGAAGGTGGTGGCCACAAGGTGCGGGCCGAGGCACAGGGCTGGAGCGAGGTGTGGCCGGCTGCCAGCCGA
GTTACAGCATCTGGACCCGGGAGGTGGCGCTGGGGGCTGTCCATTGCTGTGGAGGGTCTAGCAAAGCGGAGAT
TGCATTTGAGGATCGCAAAGATGGCTCCTGCGCGCTCTCTATGTCTGCTCCAGGAACCGGTGACTATGAGGTCTC

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FIGURE 2407C

CATCAAGTTCAATGATGAGCACATCCCAGACAGCCCCCTTTGTGGTGCCTGTGGCCTCCCTCTCGGATGACGCTCG
CCGTCTCACTGTCAACCAGCCTCCAGGAGACGGGGCTCAAGGTGAACCAGCCAGCGTCCCTTTGCCGTGCAGCTGAA
CGGTGCCCGGGCGTGATTGATGCCCCGGGTGCACACACCCTCGGGGGCTGTGGAGGAGTGCTACGTCTCTGAGCT
GGACAGTGACAAGCACACCATCCGCTTTCATCCCCACGAGAATGGCGTCCACTCCATCGATGTCAAGTTCAACGG
TGCCACATCCCTGGAAGTCCCTTCAAGATCCCGGTGGGGAGCAGAGCCAGGCTGGGGACCCAGGCTTGGTGTG
AGCCTACGGTCTCGGGCTCGAGGGAGGCACTACCGGTGTGTATCAGAGTTTCATCGTGAACACCCTGAATGCCGG
CTCGGGGGCCTTGTCTGTCAACATTGATGGCCCCCTCAAGGTGCAGCTGGACTGTCTGGGAGTGCTCTGAGGGCCA
TGTGGTCACTTATACTCCCATGGCCCCCTGGCAACTACCTCATTGCCATCAAGTACGGTGGCCCCCAGCACATCGT
GGGCAGCCCCCTTCAAGGCCAAGGTCACTGGTCCGAGGCTGTCCGGAGGCCACAGCCTTCACGAAACATCCACGGT
TCTGGTGGAGACTGTGACCAAGTCCCTCCTCAAGCCGGGGCTCCAGCTACAGCTCCATCCCCAAGTTCTCCTCAGA
TGCCAGCAAGGTGGTGACTCGGGGCCCTGGGCTGTCCAGGCCTTCGTGGGCCAGAAGAACTCCTTCACCGTGGA
CTGCAGCAAAGCAGGCACCAACATGATGATGGTGGGCGTGACGGCCCCAAGACCCCCCTGTGAGGAGGTGTACGT
GAAGCACATGGGGAACCGGGTGACAATGTCACCTACACTGTCAAGGAGAAAGGGGACTACATCCTCATTGTCAA
GTGGGGTGACGAAAGTGTCCCTGGAAGCCCCCTTCAAAGTCAAGGTCCCTTGAATCCCCAAAAGTGCCTCCCCAGCC
TCAGCCCCCACCTCCAGCCACACACACATTACACACACACACACACACAAATGTGCCACACCCAGACACGC
ACAGAATCAGACACTACAAACACCTGCCTTGGGGGTGAAGTGAAGGCCAGCCTCCCCACCCACCGCGCCCCAG
GGGTTGGAGGACCTTGTCTGTGTCAAGACAGTGTCCCTCCCTGGGAATGTGACATGAGGGCCGACTGGGGCCAGG
CTCAGGGGCAGAGGCTGGGACACAAGGGGCTGGCGAGGGCTGCGAGGCCAGGAAGCCCTGAGTTTCTGGCGGGG
CTGAGCAGTGGGGGAGCATTGTGTTGTGGGTGTCTGTGTGTGAGGTCACCCTCAAAGTGCACCGCCGGCCAGATA
CCCTCCTGACCCCGAGGACTTGGTCTGGTCTCTCTGGTGGCTACAACCCAGAGTTTTAAGGACTTGGAAGGAA
AGCACAATCAGAGAAGAAAACAGCCCCGAACCAGCAGGAGTGGCCTGGCACATGGACCGGCCTGAGCGATGTGC
ACTCCACCCAAGCCAGGCTCCCAGGGGGCCTGATTTCTCTCTCACTGTCTCTTTTTTTAAATGGTTGCACGGCT
CTGCCCCATGGGGGGCCTTTTTTACACACTGCGAGGCCAGCTTTCTAGGGGACTTTTGCACATGTCATGCAGCT
CAGCTGGGAGCTGCTTAGGTGGAAAACCTCAAATAAAGTGCGGCTGTGCG

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FIGURE 2408

MAPGNYLIAIKYGGPQHIVGSPFKAKVTGPRLSGGHSLHETSTVLVETVKSSSSRGSSYNSIPKFSSDASKVVT
RGPGLSQAFVGQKNSFTVDCSKAGTNMMVGVHGPKEEYVVKHMGNRVYNVTYTVKEKGTSLSSSGVTKVS
LEAPSKSRSLQKCLPSLSPHLQPNTHYIHTHTHTNVPHPDHTHTQNTLQTPALGVK

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FIGURE 2409A

GGAGGCGGGGCGGACCAAGAGCAGGAGCTGGAGTCTGAGCCGGTGGTTGCAGCGGAGGCGGTGATGTCGGTGCAG
GTTGTGTGAGCCGCGGCTGCCGCCAAGGTGCCTGAGGTGGAGCTGAAGGACCTGAGCCCCCTCCGAGGCGGAGTCG
CAACTAGGACTGAGCAGGCGCCCGTGGGCGCCATGGCCCCCGGCGGGCGGTGGAGACCTGAGGCTCCAGCT
CCCGCCGCGGAGCGCCCCCGGTCCCCGGCCCCGGGCTCGGGGCCCCGCCGCTCTCAGCCCCCGCGCGGGAAG
GTGCCTCAGGCGTCGGCCATGAAGCGGAGCGACCCACATCACCAGCACCAGCGGCACCGCGACGGCGCGAGGCC
CTGGTCAGCCCCGACGGCACCGTCACCGAGGCGCCGCGCACAGTCAAGAAGCAGATCCAGTTTGTGTGACCAGAAG
CAAGAATTCAACAAACGTCCCACCAAAATTGGACGTCGCTCTTTGTCTCGTTCCATTTCTCAGTCATCTACTGAC
AGCTACAGCTCAGCGGCTTCATATACAGATAGCTCTGATGATGAGACATCGCCCAGGGACAAGCAGCAAAAGAAG
TCTAAGGGAAGCAGTGACTTCTGTGTTAAGAACATCAAACAGGCAGAGTTTGGACGAAGAGAAATTGAAATTGCT
GAACAAGAAATGCCTGCATTGATGGCTTTGAGGAAGAGAGCTCAAGGAGAAAAGCCTTTGGCTGGAGCCAAAATC
GTGGGTTGCACACACATCACTGCTCAGACTGCTGTGCTTATGGAACTCTGGGTGCTCTGGGGGCCAGTGCCGA
TGGGCTGCCTGCAACATCTATTCCACTCTCAATGAAGTGGCTGCTGCTCTAGCAGAAAGTGGATTTCCTGTTTTT
GCCTGGAAGGGAGAGTCAGAAGATGACTTTTGGTGGTGTATCGATAGATGTGTGAATGTGGAGGGCTGGCAGCCA
AACATGATCTTGGATGATGGAGGGGATCTTACCCACTGGATTATATAAAAGTATCCCAACATGTTTAAAGAAAATC
AAGGGCATAGTAGAGGAGAGTGTTACTGGAGTTTACAGGCTGTACCAACTGTCCAAAGCTGGGAAGCTGTGTGTT
CCAGCCATGAATGTCAATGACTCAGTCACCAAAACAGAAATTTGACAACCTCTACTGTGCGGTGAATCAATTCTT
GATGGACTTAAAGGACAACAGACATGATGTTTGGTGGAAAGCAAGTGGTAGTCTGTGGCTATGGAGAGGTGGGG
AAAGGGTGCTGTGCTGCCCTGAAAGCCATGGGCTCCATTGTGTATGTAACGAAATTGACCCCATCTGTGCCCTG
CAAGCCTGTATGGATGGATTTGACTGGTGAAATTAATGAGGTGATCCGACAAGTGGACATTGTTATTACCTGT
ACAGGTAACAAGAATGTGGTAACCAGAGAGCACTTGGACCGTATGAAGAATAGCTGCATCGTTTGTAAACATGGGA
CATTCCAACACAGAGATTGACGTGGCGAGTCTGCGGACACCAGAACTGACCTGGGAGCGAGTGAGATCTCAAGTT
GACCATGTGATATGGCTGATGGCAAGAGGATAGTACTGCTGGCAGAGGGCCGCTGCTGAACCTTAGCTGCTCC
ACAGTGCCATACATTTGTGCTCTCAATCACTGCTACTACTCAGGCTCTTGCCCTGATAGAGCTTTACAATGCTCCT
GAGGGTCGCTATAAGCAGGATGTCTACCTGTTGCCCAAGAAGATGGATGAGTATGTGGCCAGCCTACACCTGCCT
ACCTTTGATGCCACTTGACAGAGCTGACAGATGAACAGGCCAAGTATCTGGGACTCAACAAGAATGGGCCCTTC
AAGCCTAATTACTACAGGTATTAAAGTTCTGTAACTCAAACCAGAATTTTAAAGGAATAGAACTCCAAGCCTTTT
CTCCACTACTATACAAGAAAGAATTACAGCAAGCTGCTTCTCCAATCAAAGCTGCCTGCCGTGCTACCCCTGTGTG
TTAGGTTATTTATTTATTAATAAATCAAGAATCCTGTGCTGTAGTGTGGCCAGAGTGTTGTTACTGCCCTGAGG
GCCATGAAAGCCACAGAGGATGGGCTGAGGAAGGAAAGAATGGGGTTACTGCTCCAGTGATCATTGTCATCA
TTCCCCATTGACTGAATCCTCAGCAGTGGCCGTTTTCTCTGTCCAGGCTCACGAGTTAGTCCAGGGATTCCA
TACTCCCTATTCCCTGGAGTTTTCTGGAATAAATTTTACGACCTGCTTTTCTCAGCTTGGCCCTTCCCCGGGTG
AGGCCGTTTGGAAATTAACATGGCCAGTGTTTACACAAGATTGGGTTCCTCAATCTTGACCATCACTATCACTGCC
TTCTTTATATAAAGGCTAATAAGGAAGGAGTGTTATTTATGGCTTTGCCAAGCTACATCAAGAAGCTCAGCTGTGC
TGTGCTTACCAGGGGTCTCCTTTCTTACCCAGGACTCCTTTCTCTCCTTGAATATTTATGTCCATTTTAACACT
TCCTGGTTGCAAGAGGGATGTGCTCATTATTTCTTCCACAGTTTGGTATTTGTGAGACATTTGTCTGTGCTGT
CTTTCTAATCCAGCCAACGTCTGCTCAGGAAGTGGGGCCAGCTCCACTGGGACCCATAGTTTTACTTCTCTGTCA
TTTGATTGGATAGTTTCCAAGGAAGCCCTCCAGATTGGCACTATCTCAGAAAAGGAGAGCTTGTGTGAAACAC
TGCTTCTGAAACTTCTGCTATTGCTTAAAGCTACGCTCTGAACTGAGTAGGGAAAGGCATACTTTTCCAGGGA
CTTAGGGGGATAGGCTTTGGAAATGGGACAGGTCTTTCAGACTCACAGCTTGATACCTTAACAAAGCAGAGTATA
TTTATTTGTTTCCAGGAAGGCCATTGCAGTTTGACTGGCTGAGGGATACAGAGATGAAATTGTAACTGTATCC
AGATTATCAAAGCTAATTTGACTAGTTTGAACCTCGTCAGACATTCATTCCCTTTGGCCATTGCCATGGATGAAAC
CGAGATCTGCAGTCTGATCTGTGGACTTCTGCTGGCATATCTTTATGATTTAACCTCTTCCATTGATGATT
CTGTATTTAGAGTCAGTTCTTGAGTAACTCCAGTGCTACAAAAAGAATTAGTAATGTGGTGTGGCAGCGTGA
CATTTTATGTCCACCCAAAAATTGGATTCCCTTTTGGAGACTGATCTGTTGGTCTCAGGCATTTTATTAGGACCA
GATTGGTTCTAAGAGTTAGTCTGGACTGGCCCTAGGAACTGAATTAAATAAGCCTCTTCCCTTACCAGTCT
TTTTAACACTCTCAGTTTGTGTTTCCCACTTTTTCTATGCTGGTCTGCCCTCAAAGTCTCAAGACCAAGGT
GACTCAAGATAACACCAGACCACGCATGATCACCAAAACCTTCCATCCTGATTCTTCTTCTACCTCTACCTT
CTCCAACCTCTCTGCTCTCACATATACTCTCAAAGCTAGTCTGAAAGTGACCTTACTTTTGGGAAGTAGGGAAG

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FIGURE 2409B

TGGAAC TTTGGTAAATGACTGTTTGCCTCATTTAATAGTATACAGGCTCAGCCCATAGACTACAGTTCTTCAGAG
GCCATATGTCTCAGCAAGTACTGGTTATATTCTTTTTTTGTAAGGAAGATCATAAATGCTAAAAATTCCACTAAG
CCATTCAGTTCTTCCTTTTGCCTACCTAGTCCTGATTTTTGTATTAAATTGGTTCCCTTTAGCAAGGGATTAGAT
CTTTGTACCTTATCTTATATCCAGAGCAGATTCCATTTGGCAGATAGATGGTCTCTAGCCTATTGTATTCTTAGA
CCAAAAATCATAACCTGCTGTTTCTCAGCAAAGCCTTGCTCTCTGGAGCTTACTATGTGCTGGTACTTAAAGAGT
ACATTCTGCCTTGCTGTAGTGAAGAGACCCACTCCAAATAAAAAAGGGGCCACACGGGGCTTCTAAGTTAGGTTG
CCAGTGTGCTGCCCATGATGAGTTATTTGCCTCTGAGTTTCAGATGACCTCTCTGTAGGGACACTGTGTTATCA
ACCATTAAGAAGAAAGAACCAAGCCTCCCAAGTATTTGGGTTCTATCTTAGGGTTGAAATCTGGTCATTATTC
CCTCTACCCCTTGGAATCAGAGCAATGTGCTTCTTTTCCCTCCAACCTCTTACCTTAGATGCATCCTGGTTATCTGG
AAGCATGGGAAAGAAGGCTACTTATCTCTTTGTATGTGGCTCCAGTCTGTGAGGATACATAACATTTTCTCTACA
ATGAATCTGTGCTAATATTTTGCCTTCTTTCTTTTCTTTTCTTTTACCCTTAGAGACAGGGTTTCACTATGTTGC
CCAGGCTGGTCTCAAACCTCCTGGGCTCAAGCAATCCTCCTGCCTCAGCTTCCTGAGTAGCTGGAACACAGGTGT
GTGCTACCGTGCCTGGCACTTTTTTGCCTTCTTAATGGAGATATTCAGTTTTCTTTTTTTCATTTAAACAAAGAA
AAAAATGTATCTACTCTACCTTCCCTCTGCTCTCCTCCCTCCCTATCCTACTTGCCCATATGAGCACGGCTCCC
CATGGCCACATACTCCTGCAAAGCTTTTATGCTGCTTCGCTTTTCTCTAAACAGATCTGATATTGCTGCTCCTGT
GGTTTTCTCAAAATTAACCTTTGCCGTGGTTTTTAAAAAGGAATCAAAATGCATTGTTGCATTAAAGCTTTTCAAT
AAAGGAAAATTACGGAAGGAAAATAGGCAACACCAGCAAATTATATGTGGACAGGTCTAAACTCTATATATACA
TATATATATATATATCTATATATCTATATACGTAATCATCTAGTTCTGTCTATCTTACTGAAAGGAATAACACTTC
TAAAGATCACCATTTCTGAGAAGTTCTTGAAATCTTTATGTCTAAGTGATTGTATTAGATCAGCAATAATGACT
ATGTAATCTCAAAAACAAATAAAATATTCTTAACATGG

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FIGURE 2410

MSVQVVSAAAAAKVPEVELKDLSPSEAESQLGLSTA AVGAMAPPAGGGDPEAPAPAAERPPVPGPGSGPAAALSP
AAGKVPQASAMKRSDPHHQHQRHRDGGGEALVSPDGTVTEAPRTVKKQIQFADQKQEFNKRPTKIGRRSLSRISQ
SSTD\$YSSAASYTDSSDDETSRDKQQKNSKGSSDFCVKNKQAEFGRRREIEIAEQEMPALMALRKRAQGEKPLA
GAKIVGCTHITAQTAVLMETLGALGAQCRWAACNIYSTLNEVAAAALAESGFPVFAWKGESEDDFWWCIDRCVNVE
GWQPNMILDDGGDLTHWIYKKYPNMFKKIKGIVEESVTGVHRLYQLSKAGKLCVPAMNVNDSVTKQKFDNLYCCR
ESILDGLKRTTMMFGGKQVVVCGYGEVKGCCAALKAMGSIVYVTEIDPICALQACMDGFRVLVKNLNEVIRQVDI
VIITCTGNKNVVTREHLDRMKNSCIVCNMGHSNTEIDVASLRTPELTWERVRSQVDHVIWPDGKRIVLLAEGRLLN
LSCSTVPTFVLSITATTQALALIELYNAPEGRYKQDVYLLPKKMDEYVASLHLPFTDAHLTELTDEQAKYLGLNK
NGPFKPNYYRY

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FIGURE 2411

AGTTCCTGGTCCAGAACTTTACACAGAAAAGGTGCTCAAAGGATATTTGTTTAAATGAATGTGGTATGCTGACATT
TAAACAGGACAAAACCTTGTAGAACTTCATGGAGGAACACGGAGTGACCCAAACCGAACATATGGCTACCATAGAA
GCACATGCAGTGGCCAGCAAGTGCAGCAGGTCCATGTGGCTACTTACACCGAGCATAGTATGCTGAGTGCTGAT
GAAGACTCGCCTTCTTCTCCCCGAGGACACCTCTTACGATGACTCAGATATACTCAACTCCACAGCAGCTGATGAG
GTGACAGCTCATCTGGCAGCTGCAGGTCTGTGGGAATGGCCGCTGCTGCTGTGGCAACAGGAAAGAAACGG
AAACGGCCTCATGTATTTGAGTCTAATCCATCTATCCGGAAGAGGCAACAAACACGTTTGCTTCGGAACTTCGA
GCCACGTTAGATGAATATACTACTCGTGTGGGACAGCAAGCTATTGTCCTCTGTATCTCACCCTCCAAACCTAAC
CCTGTCTTTAAAGTGTGTTGGTGCAGCACCTTTGGAGAATGTGGTGCCTAAGTACAAGAGCATGATCCTGGAAGAC
CTGGAGTCTGCTCTGGCAGAACACGCCCCCTGCGCCACAGGAGGTTAACTCAGAACTGCCGCTCTCACCATCGAC
GGAATTCAGTCTCTGTGGACAAAATGACCCAGGCCAGCTTCGGGCATTTATCCCAGAGATGCTCAAGTACTCT
ACAGGTTCGGGGAAAACAGGCTGGGGGAAAGAAAGCTGCAAGCCCATCTGGTGGCCTGAAGATATCCCCTGGGCA
AATGTCCGGAGTGATGTCCGCACAGAAGAGCAAAAGCAGAGGGTTTCATGGACCCAGGCACTACGGACCATAGTT
AAAAACTGTTATAAACAGCATGGGCGGGAAGACCTTTTGATGCCTTTGAAGATCAGCAAAACGCAACACAGGCC
ACAGCCACACATAGTATAGCTCATCTTGTAACCATCACAGACTGTAGTCCAGACTTTTAGTAACCTGATGGCACT
GTCTCACTTATCCAGGTTGGTACGGGGGCAACAGTAGCCACATTGGCTGATGCTTCAGAATTGCCAACACGGTC
ACCGTTGCCCAAGTGAATTATCTGCCGTGGCTGATGGAGAGGTGGAACAAAATTGGGCCACGTTACAGGGAGGT
GAGATGACCATCCAGACGACGCAAGCATCAGAGGCCACCCAGGCGGTGGCATCGTTGGCAGAGGCCGAGTGGCA
GCTTCTCAGGAGATGCAGCAGGGAGCTACAGTCACTATGGCGCTTAACAGCGAAGCTGCCGCCCATGCTGTCGCC
ACCCTGGCTGAGGCCACCTTACAAGGTGGGGGACAGATCGTCTTGCTGGGGAAACCGCAGCAGCCGTCGGAGCA
CTTACTGGAGTCCAAGATGCTAATGGCTCTTTATGGCAGATCGTGCAGGTGCGAAGTGGATCCTGACTGACAAA
GCCACAGGCCCTGGTCCAGATCCCTGTGAGCATGTACCAGACTGTGGTGACCAGCCTCGCCAGGGCAACGGACCA
GTGCAGGTGGCCATGGCCCCCTGTGACCACCAGGATATCAGACAGCGCAGTCAACATGGACGGCCAAGCTGTGGAG
GTGGTGACATTGGAACAGTGACATACAGCCATATTATGGCATCGTTTTCTAGTCTACTTCAAAATTTTTTACACG
TTTGAGAGGTGCAATCAAATGGAATTAAGTCTCTCGACTTTGGAAGGAAAGTTTGTTAACCTTTTTTTTTTA
AAAGGAAGAAAGCGGATTTTGGAATTGCATTTTTTAAAGCAACACTCTTGATTTCTGGGATTGGTGAAGAACT
GCATTGTCAATTTCACTGTCCCAAAAAGCCAAATTGTGGCAGGACTTCTTCTGCGGAAATGTGTGTATACT
TATGTGTGTATGTGTGAGTGTGAATATATGTATATGTGTACATATGGACATACACATTTACATATATATAAG
TATATATATACATATATATATATATATATATGTATGAAACCCGCATGGAATTATCTGTATGAAATCAAGGTGCGCTG
TGGAAACAATAATTCACCCAGTTTAGTGGGTGGTAGGGTACGTGGCCAGACACAGTCACCCAGTTTTGTTCATA
CCAGGGTCATGCGTTGAGCTACTGACAACTCAGGCGGAGGTGACCATGCCCTTCACCAAAGCTGCCTCCCAGTG
GCCACACAGAACTCTCCCTGCTGGACTCACCTGAGGAAAGAGGCTCCAGCATGGGGTGGGTGAGAGATGTGCTTG
CAAGGTCCAGGGACTGCGTGGTCTGCCAGCTGAGATGCTCCTCGGGCTGGCCAGGTGCTGACCTTGCCACAGGC
AGATGAATGTCTTGAAAGCTCCCGGGCCTCAGCCTCCCATCTCCTCTCCTTCCCAGGAATCCTTGATCTCATGAC
TATTAATGTTGCTCTGGTTTTAAGGTCAGTCTGAATTGCTCGTATATATGAAGTGAAGGTAACCGAAGTATT
AGGGGTTTGAGGAGTGCGTGCGTGTAGTGTGCTGTGTGTGTGCGTGCATGGTGGGGGAGAGGATGGGAAGGG
GCGGGGGCAGTGGAAGGGAAAGGAAGGAAAGAAAATCGTCTAGACCAGGATACACCCGTGGGAGCAATTTTCT
CTACTGTCTGTAGCTTACAGAGGAGGCGCTGGAATGAACAAGAAGAGACATCTGGTCTGTGGCCACAGCACCTT
GAACGCCCCGATCTTGTGTGATCTTGGAAGCTAAGCTTGTTGGGCCCGGTGAGTACGCGGAAGGGAAGAAGGG
ACACCTGGCCATAGAAAACAGCTGAGGGTGTGCTGTGTTCTTGATCAGGCCCTGCTTCAGAAGGGGACTCCTG
GAGGCCCATGTTCTTGTATGCAACCTCGTGGCCAGGCCGGGAGCAGCTTGCTCTCAGAGGTGTGACTATCT
GGGTGTTCTTGTTAAC

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FIGURE 2412

MEEHGVQTQTEHMATIEAHAVAQQVQVHVATYTEHSMLSADSDSPSSPEDTSYDDSDILNSTAADEVTAHLAAAG
PVGMAAAAATGKKRKRPHVFESNPSIRKRQQTRLLRKLRLATLDEYTTTRVGQQAIVLCISPSKPNPVFKVFGAA
PLENVVRKYKSMILEDLESALAEHAPAPQEVNSELPPLTIDGIPVSVDKMTQAQLRAFIPEMLKYSTGRGKPGWG
KESCKPIWWPEDIPWANVRSDVRTEEQKQRVSWTQALRTIVKNCYKQHGREDLLYAFEDQQTQTQATATHSIAHL
VPSQTVVQTFSPNDGTVSLIQVGTGATVATLADASELPTTVTVAQVNYSADADGEVEQNWATLQGGEMTIQTTQA
SEATQAVASLAEAAVAASQEMQQGATVTMALNSEAAAHAVATLAEATLQGGGQIVLSGETAAAVGALICVQDANG
LVQIPVSMYQTVVTSLAQNGPVPVQVAMAPVTTRISDSAVTMDGQAVEVVTLEQ

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FIGURE 2413

GCCTCAAGAGGCGGATATTAACCTCCCAGGACGGAAGTTCCGGAGCCTTCAAACCTCTCGGGGAAGCAACTCGGCA
GCGGACCAAGATGGCGGCGCCCTGTGAGGGACAAGCGTTTGCCGTAGGGGTGAAAAGAATTGGGGTGCAAGTAGT
TCGCTCCCCAGAAGGGACCCCCAGAAAATCCGGCAGCTGATAGATGAGGGGATTGCCCCGGAAGAGGGAGGCGT
GGACGCGAAGGACACGTCTGCCACATCCAGTCAGTTAATGGATCACCCCAAGCGGAACAACCTTCATTGGAATC
TACAAGCAAAGAAGCCTTCTTTAGCAGAGTGGAACATTTCTTCTTTGAAATGGGCAGGTAAGCCCTTTGAGCT
GTCTCCACTCGTCTGTGCAAAATATGGCTGGGTACAGTGGAATGTGATATGCTCAAGTGTCTAGCTGTCAAGC
TTTTCTCTGTGCCAGTTTACAACCAGCTTTTGACTTTGACAGATATAAGCAACGATGTGCTGAGCTGAAGAAAGC
CTTGTTACTGCCCATGAGAAGTTCTGTTTCTGGCCAGACAGCCCATCCCAGACCGATTTGGGATGTTGCCCT
GGATGAGCCTGCTATTCTTGTAGTGAATTCCTAGATCGTTTTCAAAGCCTTTGTCACTTGGACCTCCAGCTTCC
TTCCCTAAGGCCGGAGGACTTGAAAACATGTGCTTGACAGAAGACAAGATCAGTCTTCTCTACACTTGCTTGA
AGATGAACCTTGATCACCGAAGTATGAGAGAAAACTACAATCAAATTAGGCTCAGACATCCAAGTCCACGTCAC
TGCCTGTATTCTCTCTGTGTGGCTGGGCGTGTAGTTCCTCTTTGGAATCCATGCAGCTCTCCCTGATAACATG
TTCGCAATGTATGAGGAAGGTGGGGCTCTGGGGCTTCCAGCAGATTGAATCGTCCATGACTGACCTGGATGCATC
CTTTGGCCTGACCAGCTCCCCAATCCCAGGCCTTGAGGGGCGACCAGAGCGCTTACCTCTGGTGCCTGAATCTCC
TCGGAGGATGATGACCCGAGCCAGGATGCCACTTTCTCCCCAGGCTCAGAGCAGGCTGAAAAGAGCCCTGGTCC
CATTGTCTCTCGAACTCGGAGCTGGGACTCTTCCAGTCTGTTGACCGTCTGAGCCAGAGGCTGCTAGCCCCAC
CACCAGAACTCGCCAGTGACCCGAAGCATGGGAACAGGAGACACCCCTGGCCTGGAGGTACCATCTAGCCCTCT
GCGGAAAGCCAAGCGAGCTCGCCTCTGCTCCTCCAGCAGTTCGGACACATCTTCCCGAAGCTTCTTTGATCCCAC
CTCTCAGCATAGAGACTGGTGCCCTTGGGTGAATATCACACTTGGCAAAGAAAGCAGGGAGAATGGTGGAACCTGA
ACCAGATGCCAGCGCCCCAGCAGAGCCAGGCTGGAAAGCAGTGCTGACCATCCTCTTGGCGCACAAACAGTCTAG
CCAGCCAGCTGAAACGGACTCCATGAGTCTCTCTGAGAAATCAAGGAAAGTATTCCGAATATTTCGGCAGTGGGA
ATCTCTGTGCTCATGCTGAAGATACTCCAGCGCCTTCTCGGAGATAGCTGGAATGAGAGTGACTTTTTGAAAAAT
TAAGGCTGAGTTCCTTTTCGGTCAGCTGACACTAAGTTTTCTGTTCTGGGTTAATCATAAGGAGCCCCCTGCCA
TAGCAAAGGCAGTGAGTGTCAACTATCTGCATCTGGCTGAGAGAGACCCGTTTCCTTTTCAGGGATGTGGACAGGG
TAAGGGCAGCAAGCATGGTTCTGTTAAAGGAGTGTGGGATTAACAGACTAGAAGGAAGACTAAGGACCTGACCAC
CCATTTTCAGCATCTTCAATGTGGAGCAGTGTCTGAGGACTCTTCTATCCTAGGACTATGACAGTGTGTATTAAAT
AAAATATTTGCTAAGATTCTCA

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FIGURE 2414

GGCGCTGACGCCTGGCAGGGAGAAGGCGGCAGCACATGCTGGGCTCGGGGGCGATGGGCTTGTGCGCGGACCTGG
CGACGCTCTAGCCCCGAGCCGCGTATTCGTGGCCGGGTCTCCCTGGGAACAGGGTGAAGGCCGAGAACCTCTGG
CCTCAGGAAGCGCATGCGCAACCGGTTCTCCGAAACATGGAGTCTGTAGGCAAGGTCTTACCTGAATCAGGATG

AGGGAGTGGTGGGTCCAGGTGGGGCTGCTGGCCGTGCCCTGCTTGCTGCGTACCTGCACATCCCACCCCTCAG
CTCTCCCTGCCCTTCACTCATGGAAGTCTTCAGGCAAGTTTTTCACTTACAAGGGACTGCGTATCTTCTACCAA
GACTCTGTGGGTGTGGTTGGAAGTCCAGAGATAGTTGTGCTTTTACACGGTTTTTCCAACATCCAGCTACGACTGG
TACAAGATTTGGGAAGGTCTGACCTTGAGGTTTCATCGGGTGATTGCCCTTGATTTCTTAGGCTTTGGCTTCAGT
GACAAACCGAGACCACATCACTATTCCATATTTGAGCAGGCCAGCATCGTGGAAGCGCTTTTGC GG CATCTGGGG
CTCCAGAACCGCAGGATCAACCTTCTTTCTCATGACTATGGAGATATTGTTGCTCAGGAGCTTCTCTACAGGTAC
AAGCAGAATCGATCTGGTGGGCTTACCATAAAGAGTCTCTGTCTGTCAAATGGAGGTATCTTTCTGAGACTCAC
CGTCCACTCCTTCTCCAAAAGCTACTCAAAGATGGAGGTGTGCTGTACCCCATCCTCACACGACTGATGAACCTC
TTTGTAATCTCTCGAGGTCTACCCCACTCTTTGGGCCGTATACTCGGCCCTCTGAGAGTGAGCTGTGGGACATG
TGGGCAGGGATCCGCAACAATGACGGGAACCTTAGTCATTGACAGTCTCTTACAGTACATCAATCAGAGGAAGAAG
TTCAGAAGGCGCTGGGTGGGAGCTCTTGCTCTGTAACTATCCCCATTCAATTTATCTATGGGCCATTGGATCCT
GTAAATCCCTATCCAGAGTTTTTGGAGCTGTACAGGAAAACGCTGCCGCGGTCCACAGTGTGCGATTCTGGATGAC
CACATTAGCCACTATCCACAGCTAGAGGATCCCATGGGCTTCTTGAATGCATATATGGGCTTCATCAACTCCTTC
TGAGCTGGAAAGAGTAGCTTCCCTGTATTACCTCCCCTACTCCCTTATGTGTTGTGTATTCCACTTAGGAAGAAA
TGCCCCAAAAGAGGTCTTGCCATCAAACATAATTCTCTCACAAAGTCCACTTTACTCAAATTGGTGAACAGTGTA
TAGGAAGAAGCCAGCAGGAGCTCTGACTAAGGTTGACATAATAGTCCACCTCCCATTACTTTGATATCTGATCAA
ATGTATAGACTTGGCTTTGTTTTTGTGCTATTAGGAAATTCTGATGAGCATTACTATTCACTGATGCAGAAAGA
CGTTCTTTTGATAAAAGACTTTTTTTTAACTTTGGACTTCTCTGAAATATTTAGAAGTGCTAATTTCTGGCC
CACCCCAACAGGAATTCATAGTAAGGAGGAGGAGAAGGGGGCTCCTTCCCTCTCTCGAATGACGTTATGGG
CACATGCCTTTTTAAAGTTCTTTAAGCAACACAGAGCTGAGTCCTCTTTGTACATACCTTTGGATTTAGTGTTTCA
TCAGCTGTTTTTAGTTATAAACATTTTGTAAAAATAGATATTGGTTTTAAATGATACAGTATTTTAGGTATGATTT
AAGACTATGATTTACCTATACATTATATATATTTTATAAAGATACTAAACCAGCATACCCTTACTCTGCCAGAGT
AGTGAAGCTAATTAAACACATTTGGTTTCTGAATAAATTGAACTAAATCCAACTATTTCTTAAATCACAGGAC
ATTAAGGACCAATAGCATCTGTGCCAGAGATGTACTGTTATTAGCTGGGAAGACCAATTCTAACAGCAAATAACA
GTCTGAGACTCCTCATACCTCAGTGGTTAGAAGCATGTCTCTCTTGAGCTACAGTAGAGGGGAAGGGATTGTTGT
GTAGTCAAGTCACCATGCTGAATGTACACTGATTCTTTTATGATGACTGCTTAACTCCCCACTGCCTGTCCCAGA
GAGGCTTTCCAATGTAGCTCAGTAATTCCTGTTACTTTACAGACAGGAAAGTTCCAGAACTTTAAGAACAACT
CTGAAAGACCTATGAGCAAATGGTGCTGAATACTTTTTTTTTTAAAGCCACATTTCAATTGCTTTAGTCAAAGCAGG
ATTATTAAGTGATTATTTAAATTCGTTTTTTTAAATTAGCAACTTCAAGTATAACAACCTTTGAACTGGAATAA
GTGTTTATTTTCTATTAATAAAAATGAATTGTGAC

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FIGURE 2415

MREWWVQVGLLAVPLLAAYLHIPPPQLSPALHSWKSSGKFFTYKGLRIFYQDSVGTVGSPEIVVLLHGFPTSSYD
WYKIWEGLTLRFHRVIALDFLGFGFSDKPRPHYSIFEQASIVEALLRHLGLQNRRLNLLSHDYGDIVAQELLYR
YKQNRSGRLTIKSLCLSNNGGIFPETHRPLLQKLLKDGGVLSPIILRLMNFVFVSRGLTPVFGPYTRPSESELWD
MWAGIRNNDGNLVIDSLQYINQRKKFRRRWVGALASVTIPIHFIYGPLDPVNPYPEFLELYRKTLPSTVSILD
DHISHYPQLEDPMGFLNAYMGFINSF

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FIGURE 2416

TGCTTGCTACCTAGAAAGGGAGACGAGGAAACACACATGTAGCTGAGCAAACCTAAACCAGTGCACCGCTGAAAACG
AGAGAAAAAGGATACAAACAGTCCAGAAACAATGTACTTTCTAGCATCATAAGCTGAAGTCTGAAGCTCCACTG
ACCTGTAGAGAAGCTCCTGAGCAACAATATCTCCATAGTCATGAGAAAGAAGGTTGATCCTGCGGTTCTGGAGCC
CCAGATGCCGCAAAGCGCTTCCACGATGCTGGCCTGCTCAAATATGGAATAGTGATGTGGTCTCTGAGGAAAGG
AAAGCCCACATACACAGGATGAAGTCATGAGGACAGCTCTCTGCCAGCCTGACCCTCATAGTCTGCGTCTGCC
CCCACACCCCATCACCAGCCCATAGGTGCTGCTTACCGGTTTGTCACTGAAGCCAAAGCCTAAGAAATCAAG
GGCAATCACCCGATGAAACCTCAAGGTCAGACCTTCCCAAATCTACAAGAAAGAAACGATGATTTGGGCTTTCTG
CTCCTGCCCTCCCTTTTACCAGACCTACAGTTGCACAGGAGCTTCAGCCCTATCTTGGCTTAACAGACTTCCAT
AAAGAGAAAACGCCATGAAACTACCACAGGTCCCACAGATGATCCTCTTGGAAAATGCTTTATTCTGGTAATTA
ATCCCTGTTGAGGGAGGGTAACCTTGGCAGTGATCCCTTCCAGAGTGCCAAGGAGTTGTTTATTCCCTTCAGTAAA
TAAGGAACAGTTCAACATTTAATGTTTTTTTAAAAAGCAATTCAAATGTGCAAGAGCCTTCTGGTGCTGACAACAA
AATCCTTGAGGTTTTTTTAAATTTTTTATTAATAAAAAAATTTTTTTTGGAGACAGACTCTCGCTCTGTACCTAGGC
TGAAGTGCAGTGGTGCAATCTCAGCTCACTGCAACCTCTGCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCT
CCCAAGTAGCTGGGATTACAGGCTTGTGCCACCATGCCTGGCCAATTTTTTATACTTTTAGTAGAGATGGGGTTTT
GCCATGTTGGCCTGGCTGGTCTCAAACCTCCTGACCTCAGGTATCCTCCACCTCAGCCTCCCAAAGTGCTAGGA
TTTGAGCCCCCGCGCCCGGCGAGATTTTTTAAAGACATAGTAGGACGTAGAAGTCTGACTTCATTACCTTGTACC
AGTCGTAGCTGGATGTTGGAAAACCGTGTAAGCACAACCTATCTCTGGACTTCCAACCACACCCACAGAGTCTA
GGAAGAAGGAAAGTACAATCAATTATGCCAAATCCCTATAAAAAATAACCTCGAAGATGTTAAATCTAAGTAATC
TGATACAAAGAACAAGCAACTGTGACCAAATTGACATTAATAATGACACAATTATTTGTAAATGTAAAGCTTAAC
GCGTTAGGTGAGAACAGGCCTTTTCTCCTTTCAATCTGTATATTAATAACATTGTAAAAATCATGCTATGTGAAA
TACTTGAAGGCACCTTGTTTACTTTTACCTAGGTGTTTTTAAACAGCATCTCCCCATTTCTCCTTTTGTCTGT
ATATGCAAATTTTTTTCAGTGAAAAGTAAATTTTTCAGTTAAAGCATATGATCACAACACATAAACTACAAATCT
TTGTACTTTATCATGAATGGCCTCACAGAAATCTCTAAGATACAGCAACTATTTCCCAAGGAACACCTTTAGCTT
ATGCTGTTTGCTCAGCACTTTTTATTTCAGCAGGAGACCCAATCTAACATCAAAAACATAATAAACTATTACAAA
ATCCTGTCAACTATAAAAAAGGCTTAATCAACATAAACATGAACTTTTTAAATGCATATGACAATATGGAAGCAT
TCAGCATCATCTAAATTAGGTAAACATTTAGACAATATTAACCTTGCTAATAGTATGGGATTAGAACAGGTATAT
TCATATACTGCCAGTGACATGAAAATTTGGTAATAAGGTTTTTCAAAAATAATTTAGAAGCAGTTAAAAATTGTAT
ATACTTTAGCCTAAGAGTTTTGTTCTTGAGAACTCTGTGCAATAAAATCATTCCATTTATACAAGTAGTATAGTT
TGAAATGTAAAGGAAAAATAAACTGTATGGACATGAAGCTTTTACTTCAACATTAGTTTTCTAAAACAGTAAAA
CTGGAAGTAACCAAGCCAACATAATAAAATTTGTATACTTACTTAATTGAATATAGCAAATGAGAGGAGGTCAG
GAGCAATAATGAAAACGGTTTATGACAAACATTTTTCGTTATTGCTCTTGACCCCGCTCAAAACAAATCATT
CCAATCTGTTTCTCAGTTTCTTACCTATAAAATGAGGTTAATGGCACCTATCTCCAAATGCTGTTGTAAAGATT
AAACAATGAAGGCTGAAAACATAACTCAGTGCTGGCATATGGTAATTACTTGATAAGTAGTGGTCATAATAATC
ATCATCTAGCAAATTAATTTATATAATGGTATCAAGACTTAAATCACAGTTACACTACAAATAATCTACAGAA
AAAATGAAATCAGGGATGGTAAGGAGAGAGAACCAATGGTGGTTATATCTATTAATATTTTATATATTACCTGAC
AGGTTGCTC

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FIGURE 2417

TTTCCAGCCCCGGCCCCGGACCCTGCAGCTGCAGAGATGTTGATGCCTAAGAAGAACTGGATTGCCATTTATGAA
CTCCTTTTTTAAGGAGGGAGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAG
AATGTGCCCCAACCTTCATGTATGAAGGCCATGCAGTCTCTCAAGTGCCGAGGCTACGTGAAAGAACAACCTTTGCC
TGGAGACATTTCTACTGGTACCTTACCAATGAGTGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCGGAG
ATTGTGCCTGCCACCCTACGCCGTAGCCGTCCAGAGACTGGCAGGCCTCGGCCTAAAGGTCTGTATATGAGGAGT
GCTGTGCTACCTGGTGGCGACAAGAAAGCCGAGGCTGGGGCTGGGTGAGCAACCGAATTCTAGTTTAGAGGCGGA
TTTGGTTGTGGACGTGGTCAGCCACCTCAGTAAAACCTGGAGAGGATTCTTTTGCATTGAATAAATTTACAGCCAA
AAAA

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FIGURE 2418

CTCTTTCTGCTGCTCCCCAGCTCTCGGATACAGCCGACACCATGGGTTTCGGAGACCTGAAAAGCCCCACCGGCC
TCCAGGTGCTCAACGATTACCTGGCGGACAAGAGCTACATCAAGGGGTATGGTGCCATCACAAGCAGATGTGGCA
GTATTTGAAGCCGTGTCCGGCCCCACCACCTGCCGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCT
TACGAAAAGGAAAAGGCCGGCCTGCCAGGAGTGAAGAAAGCTTTGAGCAAGTATGGTCCTGCCGATGTGGAAGAC
ACTACAGGAAGTGGAGCTACAGACAGTAAAGATGATGATGACATTGATCTCTTTGGATCCGATTATGAGGAGGAA
AGTGAAGAAGCAAAGAGGCTAAGGGAAGAACATCTTGACAATATGAATCAAAGAAAGCCAATGATGAGACAGAT
ATGGCGAAATTAGAGGAGTGTGTCAGAAGCATTCAAGCAGACGGCTTAGTCTGGGGCTCATCTAAACTAGTTCCA
GTGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTGAAGATGATAAAGTTGGAACAGATATGCTGGAG
GAGCAGATCACTGCTTTTGAGGACTATGTGCAGTCCATGGATGTGGCTGCTTTCAACAAGATCTAAAAATCCATC
CTGGATCATG

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FIGURE 2419

MVPSQADVAVFEAVSGPPPADLCHALRWYNHIKSYEKEKAGLPGVKKALSKYGPADVEDTTGSGATDSKDDDDID
LFGSDYEESEEAARLREEHLAQYESKKANDETDMAKLEECVRSIQADGLVWGSSKLVPGYGIKKLQIQCVVED
DKVGTDMLEEQITAFEDYVQSM DVAAFNKI

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FIGURE 2420

CTTCTTTTGC GGAATCACCATGGCGGGCTGGGACCCTGTACACGTATCCTGAAAACTGGAGGGCCTTCAAGGCTCT
CATCGCTGCTCAGTACAGCGGGGCTCAGATCCGCGTGCTCTCCGCACCACCCCACTTCCATTTTGGCCAAACCAA
CCGCACCTCTGAATTTCTTCGCAAATTTCTGCGGGCAAGGTCCCAGCATTGAGGGTGATGATGGATTCTGTGT
GTTTGAGAGCAACGCCATTGCCTACTATGTGAGCAATGAGGAGCTGCGGGGAAGTACTCCAGAGGCAGCAGCCCA
GGTGGTGCACTGGGTGAGCTTTGCTGATTCCGATATAGTGCCCCCAGCCAGTACCTGGGTGTTCCCCACCTTGGG
CATCATGCACCACAACAAACAGGCCACTGAGAATGCAAAGGAGGAAGTGAGGCGAATTCTGGGGCTGCTGGATGC
TTACTTGAAGACGAGGACTTTTCTGGTGGGCGAACGAGTGACATTGGCTGACATCACAGTTGTCTGCACCCTGTT
GTGGCTCTATAAGCAGGTTCTAGAGCCTTCTTTCCGCCGGGCCTTTTCGCAATACCAACCGCTGGTTCTCTACCTG
CATTAACCAGCCCCAGTTCCGGGCTGTCTTGGGGGAAGTGAAGTGTGTGAGAAGATGGCCCCAGTTTGATGCTAA
AAAGTTTGCAGAGACCCAGCCTAAAAAGGACACACCACGGAAAGAGAAGGGTTCACGGGAAGAGAAGCAGAAGCC
CCAGGCTGAGCGGAAGGAGGAGAAAAAGCGGGCTGCCCTGCTCCTGAGGAGGAGATGGATGAATGTGAGCAGGC
GCTGGCTGCTGAGCCCAAGGCCAAGGACCCCTTCGCTCACCTGCCCAAGAGTACCTTTGTGTTGGATGAATTTAA
GCGCAAGTACTCCAATGAGGACACACTCTCTGTGGCACTGCCATATTTCTGGGAGCACTTTGATAAGGACGGCTG
GTCCCTGTGGTACTCAGAGTATCGCTTCCCTGAAGAACTCACTCAGACCTTCATGAGCTGCAATCTCATCACTGG
AATGTTCCAGCGACTGGACAAGCTGAGGAAGAATGCCTTCGCCAGTGTATCCTTTTGGAAACCAACAATAGCAG
CTCCATTTCTGGAGTCTGGGTCTTCCGAGGCCAGGAGCTTGCTTTCCGCTGAGTCCAGATTGGCAGGTGGACTA
CGAGTCATACACATGGCGGAACTGGATCCTGGCAGAGAGGAGACCCAGACGCTGGTTCGAGAGTACTTTTCCTG
GGAGGGGGCCTTCCAGCATGTGGGCAAAGCCTTCAATCACGGCAAGATCTTCAAGTGAACATCTCTTGCCATCAC
CTAGCTGCCTGCACCTGCCCTTCAAGGAGATGGGGGTCAATAAGGAACTGAACATTG

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FIGURE 2421

MAAGTLYTYPENWRAFKALIAAQYSGAQIRVLSAPPHFHFQGTNRTSEFLRKFPAGKVPAPAFEGDDGFCVFESNAI
AYYVSNEELRGSTPEAAAQVVQVVSFADSDIVPPASTWVFPTLGIMHHNKQATENAKEEVRRILGLLDAYLKTRT
FLVGERVTLADITVVCTLLWLYKQVLEPSFRRAFRNTNRWFLTCINQPQFRAVLGELKLCEKMAQFDAKKFAETQ
PKKDTPRKEKGSREEKQKPAERKEEKAAAAPAPEEEMDECEQALAAEPKAKDPFAHLPKSTFVLDEFKRKYSNE
DTLSVALPYFWEHFDKDGWSLWYSEYRFPEELTQTFMSCNLITGMFQRLDKLRKNAFASVILFGTNNSSSISGVW
VFRGQELAFPLSPDWQVDYESYTWKLDPGREETQTLVREYFSWEGAFQHVKGAFNHGKIFK

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FIGURE 2422

ATCACCATGGCGGCTGGGACCCTGTACACGTATCCTGAAAACCTGGAGGGCCTTCAAGGCTCTCATCGCTGCTCAG
TACAGCGGGGCTCAGATCCGCGTGCTCTCCGCACCACCCCACTTCCATTTTGGCCAAACCAACCGCACCTCTGAA
TTTCTTCGCAAATTCCTGCCGGCAAGGTCCCAGCATTGAGGGTGATGATGGATTCTGTGTGTTGAGAGCAAC
GCCATTGCCTACTATGTGAGCAATGAGGAGCTGCGGGGAAGTACTCCAGAGGCAGCAGCCCAGGTGGTGCAGTGG
GTGAGCTTTGCTGATTCCGATATAGTGCCCCCAGCCAGTACCTGGGTGTTAGCCCAAGGCCAAGGACCCCTTCGC
TCACCTGCCCCAAGAGTACCTTTGTGTGGATGAATTTAAGCGCAAGTACTCCAATGAGGACACACTCTCTGTGGC
ACTGCCATATTTCTGGGAGCACTTTGATAAGGACGGCTGGTCCCTGTGGTACTCAGAGTATCGCTTCCCTGAAGA
ACTCACTCAGACCTTCATGAGCTGCAATCTCATCACTGGAATGTTCCAGCGACTGGACAAGCTGAGGAAGAATGC
CTTCGCCAGTGTCATCCTTTT

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FIGURE 2423

GAAGGCCGCACCGTACTGGGCGGGGGTCTGGGGAGCGCAGCAGCCATGGCAAGCCGTCTCCTGCTCAACAACGGC
GCCAAGATGCCCATCCTGGGGTTGGGTACCTGGAAGTCCCCTCCAGGGCAGGTGACTGAGGCCGTGAAGGTGGCC
ATTGACGTCGGGTACCGCCACATCGACTGTGCCCATGTGTACCAGAATGAGAATGAGGTGGGGGTGGCCATTAG
GAGAAGCTCAGGGAGCAGGTGGTGAAGCGTGAGGAGCTCTTCATCGTCAGCAAGCTGTGGTGCACGTACCATGAG
AAGGGCCTGGTGAAAGGAGCCTGCCAGAAGACACTCAGCGACCTGAAGCTGGACTACCTGGACCTCTACCTTATT
CACTGGCCGACTGGCTTTAAGCCTGGGAAGGAATTTTTCCCATTTGGATGAGTCGGGCAATGTGGTTCCCACTGAC
ACCAACATTCTGGACACGTGGGCGGCCATGGAAGAGCTGGTGGATGAAGGGCTGGTGAAAGCTATTGGCATCTCC
AACTTCAACCATCTCCAGGTGGAGATGATCTTAAACAAACCTGGCTTGAAGTATAAGCCTGCAGTTAACCAGATT
GAGTGCCACCCATATCTCACTCAGGAGAAGTTAATCCAGTACTGCCAGTCCAAAGGCATCGTGGTGACCGCCTAC
AGCCCCCTCGGCTCTCCTGACAGGCCCTGGGCCAAGCCGAGGACCCCTTCTCTCCTGGAGGATCCCAGGATCAAG
GCGATCGCAGCCAAGCACAAATAAACTACAGCCCAGGTCTGATCCGGTTCCCCATGCAGAGGAACCTGGTGGTG
ATCCCCAAGTCTGTGACACCAGAACGCATTGCTGAGAACTTTAAGGTCTTTGACTTTGAACTGAGCAGCCAGGAT
ATGACCACCTTACTCAGCTACAACAGGAACCTGGAGGGTCTGTGCCTTGTGAGCTGTACCTCCCACAAGGATTAC
CCCTTCCATGAAGAGTTTTGAAGCTGTGGTTGCCTGCTCGTCCCCAAGTGACCTATACCTGTGTTTCTTGCTCA
TTTTTTTCCCTTGCAAATGTAGTATGGCCTGTGTCACTCAGCAGTGGGACAGCAACCTGTAGAGTGGCCAGCGAGG
GCGTGTCTAGCTTGATGTTGGATCTCAAGAGCCCTGTCACTAGAGTAGAAGTCTCTCCAGTTTGCTTTGCCCTT
CTTTCTACCCTGCTGGGGAAGTACAACCTGAATACCCTTTTCTGACCAAAGAGAAGCAAAATCTACCAGGTCAA
AATAGTGCCACTAACGGTTGAGTTTTGACTGCTTGAAGTGAATCCTTTCAGCAAGACTTCTCTTTGCCTCAAA
TAAAAAGTGCTTTTGTG

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FIGURE 2424

MASRLLLNNGAKMPILGLGTWKSPPGQVTEAVKVAIDVGYRHIDCAHVYQNEVEGVAIQEKLREQVVKREELFI
VSKLWCTYHEKGLVKGACQKTLSDLKLDYLDLYLIHWPTGFKPGKEFFPLDESGNVVPSDTNILDWAAMEELVD
EGLVKAIGISNFNHLQVEMILNKPLKYKPAVNQIECHPYLTQEKLQYQSKGIVVTAYSPLGSPDRPWAKPED
PSLLEDPRIKAIATAKHNKTTAQVLIRFPMQRNLVVIPKSVTPERIAENFKVDFELSSQDMTLLSYNRNRVCA
LLSCTSHKDYPFHEEF

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FIGURE 2425

GGCACGAGGCCTGAGCTCAGGAGTTTGAGACCAGCCTGTCTCTACTAACAATATAAAAAATTAGCTGGGAGTCACG
GTGGGCGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGACAGAGGTTGTA
GTGAGCTGAGATCGCACCCTGCACTCTAGCCTTGGCAACAGTGCAAGACTGTCTCAAAAACAGCAACAGAGAGC
AGGACGTGAGACTTCTACCTGCTCACTCAGAATCATTCTGCACCAACCATGGCCACGTTTGTGGAGCTCAGTAC
CAAAGCCAAGATGCCCATTTGTGGGCCTGGGCACCTTGAAGTCTCCTCTTGGCAAAGTGAAAGAAGCAGTGAAGGT
GGCCATTGATGCAGGATATCGGCACATTGACTGTGCCTATGTCTATCAGAATGAACATGAAGTGGGGGAAGCCAT
CCAAGAGAAGATCCAAGAGAAGGCTGTGAAGCGGGAGGACCTGTTTCATCGTCAGCAAGTTGTGGCCCACTTTCTT
TGAGAGACCCCTTGTGAGGAAAGCCTTTGAGAAGACCCTCAAGGACCTGAAGCTGAGCTATCTGGACGTCTATCT
TATTCCTGGCCACAGGGATTCAAGTCTGGGGATGACCTTTTCCCAAAGATGATAAAGGTAATGCCATCGGTGG
AAAAGCAACGTTCTTGGATGCCTGGGAGGCCATGGAGGAGCTGGTGGATGAGGGGCTGGTGAAAGCCCTTGGGGT
CTCCAATTTAGCCACTCCAGATCGAGAAGCTCTTGAACAAACCTGGACTGAAATATAAACCAGTACTAACCA
GGTTGAGTGTACCCATACCTCACACAGGAGAACTGATCCAGTACTGCCACTCCAAGGGCATCACCGTTACGGC
CTACAGCCCCCTGGGCTCTCCGGATAGACCTTGGGCCAAGCCAGAAGACCCTTCCCTGCTGGAGGATCCCCAAGAT
TAAGGAGATTGCTGCAAAGCACAAAAAACCGCAGCCCAGGTTCTGATCCGTTTCCATATCCAGAGGAATGTGAT
TGTCATCCCCAAGTCTGTGACACCAGCACGCATTGTTGAGAACATTGAGGCTTTTGACTTTAAATTGAGTGATGA
GGAGATGGCAACCATACTCAGCTTCAACAGAACTGGAGGGCCTGTAACGTGTTGCAATCCTCTCATTTGGAAGA
CTATCCCTTCGATGCAGAATATTGAGGGTTGAATCTCCTGGTGAGATTATACAGGAGATTCTCTTTCTTCGCTGAA
GTGTGACTACCTCCACTCATGTCCCATTTTAGCCAAGCTTATTTAAGATCACAGTGAACCTTAGTCCTGTTATAGA
CGAGAATCGAGGTGCTGTTTTAGACATTTATTCTGTATGTTCAACTAGGATCAGAATATCACAGAAAAGCATGG
CTTGAATAAGGAAATGACAATTTTTTCCACTTATCTGATCAGAACAAATGTTTATTAAGCATCAGAACTCTGCC
AACACTGAGGATGTAAAGATCAATAAAAAAATAATAATCATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2426

MATFVELSTKAKMPIVGLGTWKSPLGKVKEAVKVAIDAGYRHIDCAYVYQNEHEVGEAIQEKIQEKAVKREDLFI
VSKLWPTFFERPLVRKA FEKTLKDLKLSYLDVYLIHWPQGFKSGDDLFPKDDKGNAIGGKATFLDAWEAMEELVD
EGLVKALGVSNFSHFQIEKLLNKPGLKYKPVINQVECHPYLTQEKLIQYCHSKGITVTAYSPLGSPDRPWAKPED
PSLLEDPKIKEIAAKHKKTA AQVLIRFHIQRNVIVIPKSVTPARIVENIQVFDFKLSDEEMATILSFNRNWRACN
VLQSSHLEDYPFDAEY

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FIGURE 2427

CAGAGTTTGGGCGCCAGGCGAGACGGCAGGGCTTAAAGTTCCGGGAATCAAAGATCAACTCCCCTGAGGACAAA
TGGACCTGTAATTCCGGGTGTGACGAGAGAACGAGATTTACCTTCCTGAATTAACAGGTCATTAAGCTTGG
GCCCTGACTTTTTCTTTGTGAGAAGGTACAGAGATGGAACCTTACAATCCGAGACTAAAACGAGGGTCCCTCCCT
CATGGCTGACAGCCCAGGTGGCTACAAAGAATGTGGCACC~~AATGA~~AAGGCCCCCAAGAGGATGAGAATGGCAGCAG
TGCCAGTGGCAGCAGCAAGACTCCCTGCGACAAGGACTGTGTACTGCATGAATGAGGCTGAGATAGTTGATGTTG
CTCTGGGAATCCTGATTGAGAGCCGCAAACAGGAAAAGGCCCTGCGAGCAGCCGGCCCTGGCGGGGGCTGATAACC
CAGAGCACTCCCCTCCCTGCTCCGTGTGCGCTCACACAAGTTCTGGGAGCAGCAGTGAGGAAGAGGACAGTGGGA
AACAGGCACTGGCTCCAGGCCTCAGCCCTTCCCAGAGGCCGGGGGGTTCCAGCTCTGCCTGTAGCAGGAGCCCTG
AGGAGGAGGAGGAAGAGGATGTGCTGAAATACGTCCGGGAGATCTTTTTCAGCT~~TAG~~GGCATAAACTGTGCACTGA
ACTGTCTGCCGAGAGCAGCTGGAGGACAGCTGAGCTTCCACTGGTGCTGCTGGGCCGCCCGCCTGTGGGAATGGG
GCTCTCTGTGCTCCTACCTTTGTGCCTTCTTGGGCCTGGCAGATTCACCTCAGGCCAGAAGCCCCCTGGACACTCC
GGGCCCTTGGGGCTGCCGTTCTGAGTGTGCGGAAGGCAGGACTCAAAATGAGATCCCATTGACTCCCTCTGTATG
TACTGTGCCCTCTCCTGGCTCTTGAGGCTCTGGAGTCCCAATTGTCTGTGTTAGTCAGTGACCAGGTTCCAGGGA
AAATGATGTGATGTGGTGGTCCAACCTTACTGGAACCAAAGAGACAGTACTTTGCAAAGAAAAGGATCACTGCCAG
GTGCACTGGAATTGCTACAGTTTAGTCCGCATGATCTCTCCTGAAGGAGGAAGCCTGTTTCAAAAATAGTTTCCA
TCATGAGTCTATCAATGAGCTCCACCTCTCCAGCCAGCCTAGAAAGCAAACGAGCTGCCCACAGTTCTCTGCCC
TGTCTGGGAGGTTGAGGCCACAGTGTATAGACTGGTAAGCCAGACAGGCCCTCCTCCCGCAAGCTGTACCTTGCT
TTCACCTGTACCTTGGTCCCCGGGCAGCTAGCTATAAAGCAAAGAGGGACAGGAGCCCAGAAGAGACACTGAGGAC
AAGAGATCACACCAGAGTACATGTCTCTGCCTCTGTTTTCAGTGTGGCTTTGGACAGGAATATATGAATAAATCA
CTGCCATACAGGTTTTCCAATACACAAGTGCTAGAAAATACACACAATTCCCAATGAAAAAAAAAAAAAAAAA

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FIGURE 2428

MKAPKRMRAAVPVAAARLPATRTVYCMNEAEIVDVALGILIESRKQEKACEQPALAGADNPEHSPPCSVSPHTS
SGSSSEEDSGKQALAPGLSPSQRPGGSSACSRSPEEEEEDVLKYVREIFFS

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FIGURE 2429

GAGGTAGGCTCGGACCGGCCCGGAGCTGCTGCAGTCCTTCGCGCCCTCCTCGCCCTCCCCACCGACATCATGC
TCCAGTTCCTGATACCAAACCTGGCTAAAAAACTTGAAGAAATTAAGGACTTGGATGCCAAGAAGAAACCCC
CTAGTGCATGAGACTGCCTCCAGCACTGCCTTCAGGATATACTGATTCTACTGCTCTTGAGGGCCTCGTTTACTA
TCTGAACCAAAAGCTTTTGTTCGTCCTCCAGCCTCAGCACTTCTCTTCTTTGCTAGACCCTGTGTTTTTGGCTT
TAAAGCAAGCAAAATGGGGCCCCAATTTGAGAATAACCGACATTTCCAACATACTCACCTCTTCCCATAATCCC
TTCCAAGTGCATGGGAGGTTCTAAGACTGGAATTATGGTGCTAGATTAGTAAACATGACTTTTAATGAGTAGTG
TCTTCTTTATCGTTTGCATTTTTACTACCTTTTTTCAAAAGAAAAATTGATGAGTTTTGTATAGCTGGTCAGAT
ACAAATAATAGTGACTTCACAGTTTAGTAATTATAATGGGTACTTGTAAACATTTGGTACTAAATTATGTTGCT
GCAAAGTAATTAATAATTAGTATCTAGAGCTAGTTTCTGGTGAATTATTCATTTATTTTGTACTGTTGTTAGGCAG
CTCTGTAGTTGCTAATTTAACCAATAAGTCAATTTGCTATTTCATGAAGAAACGATTCTGAGAATCCTGTCAGGAA
TTGGGGAATGAAAAATACACAAAATAATGGTCTTTTGTCCAGTAGAGTTCATAGTCTATTTAGTGTGCATGTTT
TTCCTTAATGATGATTTTATCTGACTTTTTTCTCTCTCAAAAGAATCATACTTGGGATTACAGGTACATTTGAT
GTTATATGATGGATAAGTGAAAAGTTTTTAAAGGAGATTTTATACCTTTTACATTAAAAAAGGTATTTATATTA
TTACTTTGTAGTGATTGTCTTAAGAAAAATATAGCCCAATGTATAGTAAATCAGCAGCTCAAGAAGAATTC
TGCTTCTCTTTGTAGTTGATGCTTTGTTTTTCTGTCAGTCAGAAATTCCTTGTATTGTCAAATGTATAATCAG
CTTGTAATTGTTTTAAATTAAAAAAATTTGAATAATTAACCTTTTGCCATGGGACAAGATACAAAAGTAATTTCA
TATAAAGGGCCTCTCCACCCCTGTTCTCTGGCTCCTGGCTCCTGTTTGACAAGTTACTGTTACCACTTCGCCCTT
ATACTTTTGTAGAAAGAGTCTGTGCCTAAACAAACACGTGTAACACAAATAGTAACATACATGGAGGTCTAGCCC
TCACCTTTTTTTTTCTTTTTTTTTCTTTTTTAATGGAGATCATTCTATACCAGCATGTAAGTAGCAAGGAACCTCA
TTCTTTTTTTGGCTGCCTAAAATTTTTTGAATAGATATAACATAATTGATTAAATCTGCTACTGGTGAATGCTT
AGGTTGTTCTTTTGTATTACAGTGATAACTTCAATCCTAATGTTATTAAGCATATCGATTACAGGGTATAGCTAT
AAGATGAAGTCCTAAAAGTATAATTTAGACTAAATACAAATACCCATTTTCGCTAGCTGTTTTGTTTCAGAGGACT
GTTTGAGCAGCTTCACTAATAATGCCATTTTGAAGACATGGCAGGTTTCAAGTCAATAAACTGGAAGAATTGTT
CAGAGCATCTTTTTTCAGACAGTGATGACATTGATTCTGTATATGATAAAGTGATTCTGCTTCTCTTTGACAACT
TGCACTCTCCTACATGGAAGTAAGTTTTATTCTGTCAATGTTGCTTTTGTGTGTGACAGATTAGGATTAAATT
ATGGTTTGACTTTTCTAGCAGCGTGATCATGGGCAAGTGGCTTATTTTTTTTTTTTTTTTGTAGACAGAGTCTC
ACTCTGCTGCCAGGCTGGAGTGCAGTGGCACAGTCTTGGCTCACTGCAACTCCTGCCTCCCGGTCCAAGTGATT
CTCGTGCTGCAGCTTCTCAAGTAGCTGGCATCACCACCACACCTGGCTAATTTTGTATTTTGTAGTAACGACGAG
GTTTCACCATGTTGGCAAAGCTGGTCTCAAATTCCTGGCTCAAGTGATCTGCCACTTCAGCCTCCCAAAGTGT
TGGGATTACAGGCGTGAGCCACTGCGCCCGGCTTTTTTAACTTTTAGATTCAATTAATAGGTAAATTGCATGTC
ACGGGTTTGTAGCTTATTCTTTCAGAACTCTTGCAATTATCTGTAGACGTGGACGTAAATATCCACCTCATAGG
TTTTCATAAAAAATAATTGAGATAATGTATGTAATGTTTCACAGTGCTTTGCAGACTATCTAATAAATAGTAGCT
ATTAGTACAAA

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FIGURE 2430

CGCGGAGGAGAAGAGGAAGAGGAAGTTGGGGGAGGGTCTAGCGGGGAGTGAACCGGAAGTGTAAGGTTTCCTGC
CTCTCCTCGGCCAGGCGGAACCTCTCTGCTGGGCCCGGTGGCCGCAAAAGAACTTTCTTTCTCCCGCCCGAACGG
TCGCCGCGGCCAACTGCCTCGCCCGCTGGCAGCCTAACCTCCTTCTCTTCTCTCTCTCCGGCTTCGCGCGG
CCCTGCCTCCCTCTCGCCCGGCGGCATCCGCTTGCTGCTGCCACCGCCTCCTCATCTTCTGCCCCGCCAACCGGC
CTGCCCCGCTGCAGTGATGTGCGACAAGGAGTTCATGTGGGCCCTGAAAAACGGAGACTTGGATGAGGTGAAAGA
CTATGTGGCCAAGGAGAAGATGTCAACCGGACACTAGAAGGTGGAAGGAAACCTCTTCATTATGCAGCAGATTG
TGGGCAGCTTGAAATCCTGGAATTTCTGCTGCTGAAAGGAGCAGATATTAATGCTCCAGATAAACATCATATTAC
TCCTCTTCTGTCTGCTGTCTATGAGGGTCATGTTTCCCTGTGTGAAATTGCTTCTGTCAAAGGGTGCTGATAAGAC
TGTGAAAGGCCCAGATGGACTGACCGCCTTTGAAGCCACTGACAACCGGCAATCAAAGCTCTTCTCCAGTGATG
GATGGATGGACTGATAACTCCGGAAGATGACTCTCCTGTGGCCTCACACTGCTGCCTGTCTGTCTGTCACTCTC
TATCTGCCAGCTTCTTCAGCTAAATACTTTAAGAGGGGTGAGGGGAGAGAGAAATTCATAACAAATCCGACTACC
AGAAAAAATAATTGTTTTGGAGGAGGGGCAAAAGGAACCATGATCAGGCTTTTACTGGGATTCTGTATCAAGTA
AGCCTCTTCCCTTTCTAATAAAATATACACCTTATACCCAAGGGAGAGCAAGACAAAATACACCAGTAACATTT
GACCTTTTCAGCTCCCTAGCTAATTTATTAGATTGTGTTGAAGGTCTGATTCTACAAAGGCCAACTCTACATATT
TGGTAGCCCTAACGTCTGAGCAGTAGTGGCTGCTGTGATGTAAACTTAGGGTGCTGAGATAAGCAATTAGCTCT
AGCCTTCTGCCTTAAGAATGCACTCTACTGGGGATTTTCTGGCATAGTTAAGAGCGCTGCCTATAAGGTTGGTGA
CCAAATCTTTCTCGGTGACTTTAAGCTTTATGTGAAAGCTTAGTTAAGGTGAGGAGGGGCACACTCCTAAATTG
CTGGAIGACIGAACTTTGGATTTTCTCTCCCTTTTACATGGATTTTCATGTCTCTTTAGATAAAACTGACTAGTT
TTATTTATAAAATCTTAAGTTTTGGAAGTCTAAAGGAGAAACCATTCCAGTATGCATATTTTTTCTCCTCTAGA
TTCATACATTTATATAGCATTGAAACACTTTCAAACCTCCTGCTGGTAGTAAAGGGGATTTAAAAATAGAATCAT
AGCCATAAGCCTGTTAGTATCATATGAAGAGAGAACAGTTATCTTAGTACCTATGGATTTTCTTTATTGCTGTT
TGAATGGATTGACCTTGGTTATGTGTTGAGAATTAAGGAACATTCTTTGAAATGCCTCTCTCAGACCCATCTTGG
AGGCTGATTACTTACTGCACCAAAGCTATCACTGGGGTGAGATTTACTGTTTGGACAAATTTAGCCCCATCCCTT
CAAAAATACACTTGTAAACCAGGTTTCCAGAGTTGTTGATAGGCTTCTGCTGAACATATGCCAACCCACCTGCAT
AATATATTTTTGTTGCTTTTATAAATCATGCATTACATAAAGTGTGACAACCTCAAAATGTATTCTCTGTTCTTG
GAATACAGTGCCTTAAATGGTGTCTTATGACCTGCAGAAAATATTTACACATAAATAAGCAATTGCAGTGTTT
TGCATGCAAAATATAAAAAATTTAAATTGCTCTGATTCTATTTTGTAATGGAGAAACAATCATATCTTTCTAAG
CGGTAATGGAGGAAGACTAGTGCTTTGTGCATTTTGATATATTTGAGTTCATTTTTCCACAATGCATACTTTT
GACGCAGTTGGGTTTCTCATAAGTATCCTAGTTTCATGTACATCCGAATGCTAAATAATACTGTGTTTTAAGTTTT
GTGTTGCAAGAACAATGGAATAAATTTGAATTGTGCT

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FIGURE 2431

MCDKEFMWALKNGDLDEVKDYVAKGEDVNRTLEGGRKPLHYAADCGQLEILEFLLLKGADINAPDKHHITPLLSA
VYEGHVSCVKLLLSKGADKTVKGPDGLTAFEATDNQAIKALLQ

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FIGURE 2432

ATGAGGCGGTTTTTCAGTAGTACAGAGGGTACTTTGTCATATTAGACCTTTTCTGGCTCTTTTAACAAGGACGCTG
TTGCTTATTCCTAATAACAATGTCGTTCTCTGGCAGATTTCATAGTCCACCAGTCCAGCTCTGGCCCAAGATCTCCT
CTCACCATGATCCCAAGTTATTCTTTCCGGATATCATTAGGAAAGGACAGCGAATCATCCCTTTTTCATCCTCTTC
CCATATGCCAACCCCTCACTCCCTCTTTTCTTATTTGCAATCAGAGAGGGAAGAATGCAGATCTGCCAAGTGCGT
TATAAATACTGTGAAACAAAAGGGACGCTCTGGGGCAGCGCAGGAGGGGTACAGTCCTACAAGGTGTCCACCTCT
GGCCCCCTGGGCCCTTCAGCAGCCGCTCCTGCACGAGTGGGCCCTGTGCCCCGATGAGCTCCTCGAGCTTCTCCCGA
GTGGACAGCAGCAGCTTTCGGGGTGGCCTGGGCAGCGGCTATGAGGTGAACCCCAACATCCAGGCCGTGCGCATC
CAGGGGAAGGAGCAGATCAAGACCTCAACAAGAAGTTGCCTCCTTCATAGACAAGGTACGGTTCCTGGAGCAG
CAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGACGACTCGGAGCAACATGGACAACATG
TTCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGAAGCACTCTTCTTTAAAAGTTTCTGA

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FIGURE 2433

CTCTTTCCCATCTTGCAAGATGGCGGGTGAAAAAGTTGAGAAGCCAGATACTAAAGAGAAGAAACCTGAAGCCAA
GAAGGCTGATGCTGGTGGCAAGGTGAAAAAGGGTAACCTCAAGGCTAAAAAGCCCAAGAAGGGGAAGCCCCATTG
CAGCCGCAACCCGTGTCATTGTGAGAGGAATTGGCAGGTATTCCCGATCTGCTATGTATTCCAGAAAGGCCATGTA
CAAGAGGAAGTACTCAGCCGCTAAATCCAAGGTTGAAAAGAAAAAGAAGGAGAAGGTTCTTGCAACTGTTACAAA
ACCAGTTGGTGGTGACAAGAACGGCAGTACCCGGGTGGTTAAACTTCGCAAAATGCCTAGATATTATCCTACTGA
AGATGTGCCTCGAAAGCTGTTGAGCCACAGCAAAAAACCCTTCAGTCAGCACGTGAGAAAACCTGCGAGCCAGCAT
TACCCCGGGGACCATTCTGATCATCCTCACTGGACGCCACAGGGGCAAGAGGGTGGTTTTCTGAAAGCAGCTGGC
TAGTGGCTTGTTACTTGTGACTGGACCTCTGGTCCTCAATCGAGTTCTCTACGAAGAACACACCAGAAATTTGT
CATTGCCACCTCAACCAAAATCGATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGCTTACTTCAAGAA
GAAGAAGCTGCGGAAGCCCAGACACCAGGAAGGTGAGATCTTCGACACAGAAAAAGAGAAATATGAGATTACGGA
GCAGTGCAAGATTGAGCAGAAAGCTGTGGACTCACAAATTTTACCAAAAATCAAAGCTATTCTCAGCTCCAGGG
CTACCTGTGATCTGTGGTTGCCCTGACGAATGGAATTTATCCTCACAAATTGGTGTTCTAAATGTCTTAAGAACT
TAATTAAATAGTTGACTAC

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FIGURE 2434

CAGGGCCCCTGAGATCATCCTTGGTTTACCATTTTGTGAGGCAATTGACATGTGGTCCCTGGGCTGTGTTATTGC
AGAATTGTTCCCTGGGTTGGCCGTTATATCCAGGAGCTTCGGAGTATGATCAGATTCCGTATATTTACAAACACA
GGGTTTGCCTGCTGAATATTTATTAAGCGCCGGGACAAAGACAACCTAGGTTTTTCAACCGTGACACGGACTCACC
ATATCCTTTGTGGAGACTGAAGACACCAGATGACCATGAAGCAGAGACAGGGATTAAGTCAAAAGAAGCAAGAAA
GTACATTTTCAACTGTTTAGATGATATGGCCCAGGTGAACATGACGACAGATTTGGAAGGGAGCGACATGTTGGT
AGAAAAGGCTGACCGGCGGGAGTTTCATTGACCTGTTGAAGAAGATGCTGACCATTGATGCTGACAAGAGAATCAC
TCCAATCGAAACCCTGAACCATCCCTTTGTCAACCATGACACACTTACTCGATTTTCCCCACAGCACACACGTCAA
ATCATGTTTCCAGAACATGGAGATCTGCAAGCGTCGGGTGAATATGTATGACACGGTGAACCAGAGCAAAACCCC
TTTCATACGCACGTGGCCCCAGCACGTCCACCAACCTGACCATGACCTTTAACAACCAGCTGACCACTGTCCA
CAACCAGGCTCCCTCCTCTACCACTGCCACTATTTTCCTTAGCCAATCCCGAAGTCTCCATACTAACTACCCATC
TACACTCTACCAAGCCCTCAGCGGCATCCATGGCTGCACTGAGGCCAGCGGAGCATGCCCCCTGCAGACAGGAACAGC
CCAGATTTGTGCCCCGGCCTGACCCGTTCCAGCAAGCTCTCATCGTGTGTCCCCCGGCTTCCAAGGCTTGACGGC
CTCTCCCTCTAAGCACGCTGGCTACTCGGTGCGAATGGAATGCAAGTTCCTCATCGTCACTCAAGCCCCAGGAGC
TCAGCCTCTTCAGATCCAACCAAGGTCTGCTTGCCAGCAGGCTTGCCCAAGTGGGACCCAGCAGATCCTGCTTCC
CCCAGCATGGCAGCAACTGACTGGAGTGGCCACCCACACATCAGTGCAGCATGCCACCGTGATTCCCGAGACCAT
GGCAGGCACCCAGCAGCTGGCGGACTGGAGAAATACGCATGCTCACGGAAGCCATTATAATCCCATCATGCAGCA
GCCTGCACTATTGACCGGTCTATGTGACCTTCCAGCAGCACAGCCCTAAATGTGGGTGTGGCCACGTGATGCG
GCAGCAGCCAACCAAGCACCACCTCCTCCCGGAAGAGTAAGCAGCACCAAGTCACTGTGAGAAATGTCTCCACCTG
TGAGGTGTCTCTCTCAGGCCATCAGCTCCCCACAGCGATCCAAGCGTGTCAAGGAGAACACACCTCCCCGCTG
TGCCATGGTGACAGTAGCCCGGCTGCAGCACCTCGGTACCTGTGGGTGGGGCGACGTGGCCTCCAGCACCAC
CCGGGAACCGCAGCGGCAGACAATTGTCTATTCGGACACTCCAGCCCCACGGTCAGCGTCATCACCATCAGCAG
TGACACGGACGAGGAGGAGGAACAGAAACAGCCCCCACCAGCACTGTCTCCAAGCAAGAAAAAACGTATCAG
CTGTGTACAGTCCACGACTCCCCCTACTCCGACTCCTCCAGCAACACCAGCCCCTACTCCGTGCAGCAGCGTGC
TGGGCACAACAATGCCAATGCCTTTGACACCAAGGGGAGCCTGGAGAATCACTGCACGGGGAACCCCGAACCAT
CATCGTGCCACCCCTGAAAACCCAGGCCAGCGAAGTATTGGTGGAGTGTGATAGCCTGGTGCCAGTCAACACCAG
TCACCACTCGTCCTCTACAAGTCCAAGTCTCCAGCAACGTGACCTCCACCAGCGGTCACTCTTCAGGGAGCTC
ATCTGGAGCCATCACTACCGGCAGCAGCGGCCGGGCCCCCACTTCCAGCAGCAGCAGCCACTCAATCTCAGCCA
GGCTCAGCAGCACATCACCACGGACCGCACTGGGAGCCACCGAAGGCAGCAGGCCTACATCACTCCCACCATGGC
CCAGGCTCCGTACTCCTTCCCGCACAACAGCCCCAGCCACGGCACTGTGCACCCGCATCTGGCTGCAGCCGCTGC
CGCTGCCCACCTCCCCACCCAGCCCCACCTCTACACCTACACTGCGCCGGCGGGCCCTGGGCTCCACCGGCACCGT
GGCCCACCTGGTGGCCTCGCAAGGCTCTGCGCGCCACACCGTGCAGCACACTGCCTACCCAGCCAGCATCGTCCA
CCAGGTCCCCGTGAGCATGGGCCCCCGGCTCTGCCCTCGCCACCATCCACCCGAGTCAGTATCCAGCCCAATT
TGCCCACCAAGACCTACATCAGCGCCTCGCCAGCCTCCACCGTCTACACTGGATAACCACTGAGCCCCGCCAAGGT
CAACCAGTACCCTTACATATAAACACTGGAGGGGAGGGAGGGAGGGAGGGAGAGAGAATGGCCCCGAGGGAGGA
GGGAGAGAAGGAGGGAGGGCGCTCCTGGGACCGTGGGCGCTGGCCTTTTATACTGAAGATGCCGCACACAAACAAT
GCAAACGGGGCAGGGGCGGGGGGGGGGGGGGGGAGGGGACGGGTGCGGACACCAGTGAAACTTGA
ACCGGGAAGTGGGAGGACGTAGAGCAGAGAAGAGAACATTTTTAAAGGAAGGGATTAAAGAGGGTGGGAAATCT
ATGGTTTTTATTTTAAAAAA

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FIGURE 2435

CCTGCGTGGCTGGGCTGCTCGGGTTAGATCGTCAGGAAAAGCCTAAAGATTAGACTGTAAGAAAAGAAAATAGAA
GCCATGTTTTCGAAGACCTGTATTACAGGTACTTCGTCAGTTTGTAAGACATGAGTCCGAAACAACCTACCAGTTTG
GTTCTTGAAAGATCCCTGAATCGTGTGCACTTACTTGGGCGAGTGGGTCAGGACCCTGTCTTGAGACAGGTGGAA
GGAAAAAATCCAGTCACAATATTTTCTCTAGCAACTAATGAGATGTGGCGATCAGGGGATAGTGAAGTTTACCAA
CTGGGTGATGTCAGTCAAAAGACAACATGGCACAGAATATCAGTATTCCGGCCAGGCCTCAGAGACGTGGCATAT
CAATATGTGAAAAAGGGGTCTCGAATTTATTGGGAAGGGAAAAATAGACTATGGTGAATACATGGATAAAAAATAAT
GTGAGGCGACAAGCAACAACAATCATAGCTGATAATATTATATTTCTGAGTGACCAGACGAAAGAGAAGGAGTAG

AAAGGATGATTCTTCTTTGGCCATCATTGGTACAGTCTCATTTCCAAGTCATGTATAATCTTTATGGCTTCCAA
GGACAAGAATTAAAATACTCTTTTACGT

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FIGURE 2436

MFRRPVLQVLRQFVRHESETTSLVRLERSLNRVHLLGRVGQDPVLRQVEGKNPVTIFSLATNEMWRSQDSEVYQL
GDVSQKTTWHRISVFRPGLRDVAYQYVKKGSRIYLEGKIDYGEYMDKNNVRRQATTIADNIIIFLSDQTKEKE

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FIGURE 2437

GACCAGCCGTGCAAATCTCTAGAAGATGACGGTGTTCCTTTAAACCGCTTCGAAATCACTGGAAGAAACTACAGC
TGGGCTCTGCCTGCTGACCTGGGAGGCCATTGGCTCTATGGAACACTGTGATAACCTCCTAAGGAGAGCAGC
CTGTCAAGAAGCTCAGGTGTTTGGCAATCAACTATTCCCTCCCAATGCACAAGTGAAGAAGGCCACTGTTTTTCT
CAATCCTGCAGCTTGCAAAGGAAAAGCTAGGACTCTATTTGAAAAAATGCTGCCCCGATTTTACATTTATCTGG
CATGGATGTGACTATTGTTAAGACAGATTATGAGGGACAAGCCAAGAACTCCTGGAACCTGATGGAACACCGGA
TGTGATCATTGTTGCAGGAGGAGATGGGACACTGCAGGAGGTTGTTACTGGTGTTCCTCGACGAACAGATGAGGC
TACCTTCAGTAAGATTCCCATTTGATTTATCCCACTGGGAGAGACCAGTAGTTTGAGTCATACCCTCTTTGCCGA
AAGTGGAAACAAAGTCCAACATATTACTGATGCCACACTTGCCATTGTGAAAGGAGAGACAGTTCCACTTGATGT
CTTGACAGATCAAGGGTGAAGGAAACAGCCTGTATTGCAATGACCGGCTTCGATGGGGATCTTTTCAGAGATGC
TGGCGTCAAAGTTAGCAAGTACTGGTATCTTGGGCTCTAAAAATCAAAGCAGCCCACTTTTTTCAGCACTCTTAA
GGAGTGGCCTCAGACTCATCAAGCTCTATCTCATAACGGGACCTACAGAGAGACCTCCCAATGAACCAGAGGA
GACCCCTGTACAAAGGCCTTCTTTGTACAGGAGAATATTACGAAGGCTTGCGTCTACTGGGCACAACACAGGA
TGCCCTTTCCCAAGAGGTGAGCCCGGAGGTCTGGAAAGATGTGCAGCTGTCCACCATTGAACTGTCCATCACAAAC
ACGGAATAATCAGCTTGACCCGACAAGCAAAGAAGATTTTCTGAATATCTGCATTGAACCTGACACCATCAGCAA
AGGAGACTTTTATAACTATAGGAAGTCGAAAGGTGAGAAACCCCAAGCTGCACGTGGAGGGCACGGAGTGTCTCCA
AGCCAGCCAGTGCACCTTTGCTTATCCCGGAGGGAGCAGGGGGCTCTTTTAGCATTGACAGTGAGGAGTATGAAGC
GATGCCCTGTGGAGGTGAAACTGCTCCCCAGGAAGCTGCAGTTCTTCTGTGATCCTAGGAAGAGAGAACAGATGCT
CACAAGCCCCACCCAGTGAGCAGCAGAAGACAAGCACTCTGAGACCACACTTTAGGCCACCGGTGGGACCAAAAG
GGAACAGGTGCCTCAGCCATCCCAACAGTGTCTGTGAGGGTCCCCAGGGCATTTCATGGCAAGTACCCCTCTG
CCCCCACTCCAGCAGTGCTTCCCAAGTGTGCTCTGTACCTGCTTTGCAATCGGCTTCCATTAGCGCATGTTTT
ATTTTGGTGTGACGGTTGGCCCTCTAAACACGGACTTTCTCAGGCTGGTTCAAGACGGAAAAGGACTTTCTTC
TGTTTTCTTCCAAAGTGCAACCACAGTGGAGAGCCACGGTGGGCTTAGCCTGCCTAGGCCCTTCCATTCTCTT
CTTTGACCGTGCTAGGAATTCCAGGAAAGTGCAATCCTGCCCTGGTGACCTTTTCTATGTCTAGGCTCCTCCAC
AGGTGCTGCTATTTTGTGAGCTCCGGCTCCTGTTTAGCTTTTATTTTCAAGTCTAACCTCAGTCCAGAAACATATG
TGAGGTTGTTTTCCCTCTTCAGCCACGGCTACAATACCGGAAAATGCTAGTTTTTATTTATTTTTTAAAGTAGTGC
TTCCTAAATGGTTTGATGAGAGCCACCTGGGGTACATGTTGAAAACCTATTGTTGGGTCTACCCCAAACCTAATA
ACCCAAATTTGGGGATGGGGCCAGGAATATGCATTTTAAAAAGTCATCTGCCCTTCCAGGTGATTCTGTAAAG
TTGTCCCTCAACTGTACTTGAGAAATCGTGTTTTAAAGCAGTAGTCCCAAAGTATTCTGCTCATGTGCCCCCA
AAAGTATTTTGA AAAATCATGTATACCCTACCCATCTAAGTTGATATCTAAAATTTTATCTAAGTTGGTATCTA
AAATTTTTTCATGGGAAGTTAAATAGTTGACAAAGTATGTATTTGCTGGTGTCTGTAAATATTGGTATTTTAAAA
TAAAAACTGTTACATCACTATTTTAAACATATCCAGTACAATTTAAATATCACAAATTTGACACCCTTCATTC
ATTTATAAAAATAAATGAGCTAGTTCTTTAGTAGTTAAACATTTCAAATTGGCTTTTCTCCTTCTGTATTTCCAT
ACCACTTTTCAGCCAAGAATCCTATCATAATGTAATCTATTATGCCCCGACATCTTTTAAATCATTACCCCAATTAC
TTCTTGTCAACAAAAATATAAATGGAAATTTTTTTTTTAGCTCTTGCTTAAAGTGTGTTTGTATCTCAGTC
CAGAACCAATATTATCGTAATTAATTATTGGTATATAATGAAAACGGTATTAATTCTTGGATGATTAAAGTTTT
TTTATTAGAATGTTCTTTATCCTAATTAGTTTCATTTATCCAAGAATACATGAATGTGATTACAGCTGAGATGGG
GTTCAACCTCAGCTGATTCTTGTCTGTATAGATGTAAGCACATAAATTCGATGGAATAGAATTACGTTAAC
AATGAAAAAAAAAAAAAA

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FIGURE 2438

MTVFFKTLRNHWKTTAGLCLLTWGGHWLYGKHCDNLLRRAACQEAQVFGNQLIPPNAQVKKATVFLNPAACKGK
ARTLFEKNAAPILHLSGMDVTIVKTDYEGQAKKLELEMENTDVIIIVAGGDGTLQEVVTGVLRRRTDEATFSKIPIG
FIPLGETSSLSHTLFAESGNKVQHITDATALIVKGETVPLDVLQIKGEKEQPVFAMTGLRWGSFRDAGVKVSKYW
YLGPLKIKAAHFFSTLKEWPQTHQASISYTGPTERPPNEPEETPVQRPSLYRRILRRRLASYWAQPQDALSQEVSP
EVWKDVQLSTIELSITTRNNQLDPTSKEDFLNICIEPDTISKGDFITIGSRKVRNPKLHVEGTECLQASQCTLLI
PEGAGGSFSIDSEYEAMPVEVKLLPRKLQFFCDPRKREQMLTSPTQ

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FIGURE 2439

CGCCTCCCTTCCCCCTCCCCGCCGACAGCGGCCGCTCGGGCCCCGGCTCTCGGTTATAAGATGGCGGCGCTGAG
CGGTGGCGGTGGTGGCGGCGCGGAGCCGGGCCAGGCTCTGTTCAACGGGGACATGGAGCCCGAGGCCGGCGCGG
CGCCGGCGCCGCGGCCCTCTTCGGCTGCGGACCCTGCCATTCCGGAGGAGGTGTGGAATATCAAACAAATGATTAA
GTTGACACAGGAACATATAGAGGCCCTATTGGACAAATTTGGTGGGGAGCATAATCCACCATCAATATATCTGGA
GGCCTATGAAGAATACACCAGCAAGCTAGATGCACTCCAACAAAGAGAACAACAGTTATTGGAATCTCTGGGGAA
CGGAAGTGATTTTTCTGTTTCTAGCTCTGCATCAATGGATACCGTTACATCTTCTTCTCTTAGCCTTTCAGT
GCTACCTTCACTCTCTTTCAGTTTTTCAAAATCCACAGATGTGGCACGGAGCAACCCCAAGTCACCACAAAAACC
TATCGTTAGAGTCTTCTGCCCCAACAAACAGAGGACAGTGGTACCTGCAAGGTGTGGAGTTACAGTCCGAGACAG
TCTAAAGAAAGCACTGATGATGAGAGGTCTAATCCAGAGTGCTGTGCTGTTTACAGAATTCAGGATGGAGAGAA
GAAACCAATTGGTTGGGACACTGATATTTCTGGCTTACTGGAGAAGAATTGCATGTGGAAGTGTGGAGAAATGT
TCCACTTACAACACACAACCTTTGTACGAAAAACGTTTTTCACCTTAGCATTTTGTGACTTTTGTGCGAAAGCTGCT
TTTCCAGGGTTTCCGCTGTCAAACATGTGGTTATAAATTTACCAGCGTTGTAGTACAGAAGTTCCACTGATGTG
TGTTAATTATGACCAACTTGATTGCTGTTTGTCTCCAAGTTCTTTGAACACCACCCAAATACCACAGGAAGAGGC
GTCCTTAGCAGAGACTGCCCTAACATCTGGATCATCCCTTCCGCACCCGCTCGGACTCTATTGGGCCCCAAAT
TCTCACCAGTCCGCTCTCCTTCAAAATCCATTCCAATTCACAGCCCTTCCGACCAGCAGATGAAGATCATCGAAA
TCAATTTGGGCAACGAGACCGATCCTCATCAGCTCCAATGTGCATATAAACACAATAGAACCTGTCAATATTGA
TGACTTGATTAGAGACCAAGGATTTTCGTGGTGATGGAGGATCAACCACAGGTTTGTCTGCTACCCCCCTGCTC
ATTACCTGGCTCACTAACTAACGTGAAAGCCTTACAGAAATCTCCAGGACCTCAGCGAGAAAGGAAGTCATCTTC
ATCCTCAGAAGACAGGAATCGAATGAAAACACTTGGTAGACGGGACTCGAGTGATGATTGGGAGATTCTGATGG
GCAGATTACAGTGGGACAAAGAATTGGATCTGGATCATTTGGAACAGTCTACAAGGGAAGTGGCATGGTGATGT
GGCAGTGAAAATGTTGAATGTGACAGCACCTACACCTCAGCAGTTACAAGCCTTCAAAAATGAAGTAGGAGTACT
CAGGAAAACACGACATGTGAATATCCTACTCTTCATGGGCTATTCCACAAAGCCACAACCTGGCTATTGTTACCCA
GTGGTGTGAGGGCTCCAGCTTGATCACCATCTCCATATCATTGAGACCAAATTTGAGATGATCAAACCTTATAGA
TATTGCACGACAGACTGCACAGGCGATGGATTACTTACACGCCAAGTCAATCATCCACAGAGACCTCAAGAGTAA
TAATATATTTCTTCATGAAGACCTCACAGTAAAAATAGGTGATTTTGGTCTAGCTACAGTGAAATCTCGATGGAG
TGGGTCCCATCAGTTTGAACAGTTGTCTGGATCCATTTTGTGGATGGCACCAGAAGTCATCAGAATGCAAGATAA
AAATCCATACAGCTTTTCAGTCAGATGTATATGCATTGGGAATTGTTCTGTATGAATTGATGACTGGACAGTTACC
TTATTCAAACATCAACAACAGGGACCAGATAATTTTATGGTGGGACCAGGATACCTGTCTCCAGATCTCAGTAA
GGTACGGAGTAACTGTCCAAAAGCCATGAAGAGATTAATGGCAGAGTGCCTCAAAAAGAAAAGAGATGAGAGACC
ACTCTTTCCCAAATTTCTCGCCTCTATTGAGCTGCTGGCCCGCTCATTGCCAAAATTCACCGCAGTGCATCAGA
ACCTCTCTGAATCGGGCTGGTTTCCAAACAGAGGATTTTAGTCTATATGCTTGTGCTTCTCCAAAACACCCAT
CCAGGCAGGGGATATGGTGCCTTCTGTCCACTGAAACAAATGAGTGAGAGAGTTCCAGGAGAGTAGCAACAAA
AGGAAAATAAATGAACATATGTTGCTTATATGTTAAATTGAATAAAATACTCTCTTTTTTTTAAAGGTG

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FIGURE 2440

GGCACGAGGGTGTCCCTCCCCGCCCCGGCTGGAGGCTGCTCCGGACCGGGACGCAGAGTCTGCGGACCCGGCGCCG
AGGCGGCCACCCGAGACGCGGCGCGCACGCTCCGGCCTGCGCAGCCC GGCCCGGCCATGGCGGCCCCCGCCCCGT
CTCCCGCATCTCCGTTTCGGTCTCGGCTCCGGCTTTTTACGCCCCGAGAAGAAGTTCCGGCCTGTGGTGGCCC
CAAAGCCCAAAGTGAATCCCTTCCGGCCCGGGGACAGCGAGCCTCCCCCGGCACCCGGGGCCCAGCGCGCACAGA
TGGGCCGGGTGGGCGAGATTCCCCCGCCGCCCCCGGAAGACTTTCCCTGCCTCCACCTCCCCCTGTGGGGATG
GCGACGATGCAGAGGGTGTCTGGGAGGTGCCTTCCCGCCGCCCCCTCCCCGATCGAGGAATCATTTCCCCCTG
CGCCTCTGGAGGAGGAGATCTTCCCTTCCCCGCGCCTCTCCGGAGGAGGAGGGAGGGCCTGAGGCCCCCATA
CGCCCCCACCACAGCCAGGGAGAAGGTGAGCAGTATTGATTGGAGATCGACTCTCTGTCTCACTGCTGGATG
ACATGACCAAGAATGATCCTTTCAAAGCCCGGGTGTCTGATATGTGCCCCCACCAGTGGCCACTCCATTCA
GTTCCAAGTCCAGTACCAAGCCTGCAGCCGGGGGCACAGCACCCCTGCCTCCTTGAAGTCCCCCTCCAGCTCCC
AGCCTCTGCCCCAGGTTCCGGCTCCGGCTCAGAGCCAGACAGTTCCATGTTTCAGCCCCAGCCCCAGCCCAAGC
CTCAGGTCCAACCTCATGTCCAGTCCCAGACCCAGCCTGTGTCTTTGGCTAACACCCAGCCCCGAGGGCCCCCAG
CCTCATCTCCGGCTCCAGCCCCTAAGTTTCTCCAGTGACTCCTAAGTTTACTCCTGTGGCTTCCAAGTTTCAGTC
CTGGAGCCCCAGGTGGATCTGGGTCAACAACCAATCAAAAATTGGGGCACCCGAAGCTCTTTCTGTGGCACAG
GCTCCCCCTCAACCTCCCAGCTTACCTATGCCAGCAGAGGGAGAAGCCCCGAGTGCAGGAGAAGCAGCACCCCG
TGCCCCCACC GGCTCAGAACCAAAACCAGGTGCGCTCCCCTGCGGGCCCCAGGGCCCCCTGACTCTGAAGGAGGTGG
AGGAGCTGGAGCAGCTGACCCAGCAGCTAATGCAGGACATGGAGCATCCTCAGAGGCAGAATGTGGCTGTCAACG
AACTCTGCGGCCGATGCCATCAACCCCTGGCCCGGGCGCAGCCAGCCGTCCGCGCTCTAGGGCAGCTGTTCCACA
TCGCCCTGCTTACCTGCCACCAAGTGTGCGCAGCAGCTCCAGGGCCAGCAGTTCTACAGTCTGGAGGGGGCGCCGT
ACTGCGAGGGGCTGTTACACTGACACCCTGGAGAAGTGTAACACCTGCGGGGAGCCCATCACTGACCGCATGTGA
GGGCCACGGGCAAGGCCTATCACCCGCACTGCTTACCTGTGTGGTCTGCGCCCGCCCCCTGGAGGGCACCTCCT
TCATCGTGGACCAGGCCAACCGGCCCCACTGTGTCCCGACTACCACAAGCAGTACGCCCCGAGGTGCTCCGTCT
GCTCTGAGCCCATCATGCCTGAGCCTGGCCGAGATGAGACTGTGCGAGTGGTCGCCCTGGACAAGAACTTCCACA
TGAAGTGTTACAAGTGTGAGGACTGCGGGAAGCCCCCTGTGATTGAGGCAGATGACAATGGCTGCTTCCCCCTGG
ACGGTCACGTGCTCTGTGGAAGTGCCACACTGCTAGAGCCAGACCTGAGTGAGGACAGGCCCTCTTCAGACCG
CAGTCCATGCCCCATTGTGGACCACCCACACTGAGACCACCTGCCCCACCTCAGTTATTGTTTTGATGTCTAGC
CCCTCCCATTTCCAACCCCTCCCTAGCATCCCAGGTGCCCTGACCCAGGACCCAACATGGTCTAGGGATGCAGGA
TCCCGCCCTGGGGTCTGGTCCTCGCCATCCTGCAGGGATTGCCACCGTCTTCCAGACACCCACCTGAGGGG
GGCACCAGGTTTAGTGCTGCTGCTTTACTGCTGCACCCGCGCCCTCGGCCGGCCCCCGAGCAGCCTTTGTACT
CTGCTTGCGGAGGGCTGGGAGACCCTCCAGGACATTCCACCCCTCCCCATGCTGCCAAGTTGTAGCTATAGCTA
CAAATAAAAAAAAAAACCTTGTTTTCCAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2441

MAAPRPSPAISVSVSAPAFYAPQKKFGPVVAPKPKVNPFRPGDSEPPAPGAQRAQMGRVGEIPPPPPEDFPLPP
PPLAGDGDDAEGALGGAFPPPPPIEESFPPAPLEEEIFPSPPPPPEEEGGPEAPIPPPPQPREKVSSIDLEIDS
LSSLLDDMTKNDPFKARVSSGYVPPPVATPFSKSSSTKPAAGGTAPLPPWKSPSSSQPLPQVPAPAQSQTQFHVQ
PQPQPKPQVQLHVQSQTQPVSLANTQPRGPPASSPAPAPKFSPVTPKFTPVASKFSPGAPGGSGSQPNQKLGHPE
ALSAGTGSPQPPSFTYAQQREKPRVQEKQHPVPPPAQNQNQVRSPGAPGPLTLKEVEELEQLTQQLMQDMEHPQR
QNVAVNELCGRCHQPLARAQPAVRALGQLFHIACFTCHQCAQQLQGQOFYSLEGAPYCEGCYTDITLEKNTCGEP
ITDRMLRATGKAYHPHCFTCVVCARPLEGTSFIVDQANRPHCVDPYHKQYAPRCSVCSEPIMPEPGRDETVRVVA
LDKNFHMKCYKCEDCGKPLSIEADDNGCFPLDGHVLCRKCHTARAQT

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FIGURE 2442

GGCACGAGGGGCGGCGGAGCCGACTCGTTCGCGGCCGAGGCGCACGCGGTCCGCGCCGGCGTCACTCTGGGATTGG
CCGGCCCGGACTTCCTCCGCCCCCTGCCAATCGCCGGGGACGACTTCCGTGGGTTTTTCCGGCTCTCCCGCGTC
GCTAAGGAGCGACGGGCTGTGCGCCAGACCCCGAGTTCTCGGTGCGCTCAGCGGCCGCCGACGCTAGGAGGCCGC
GCTCCGCCCCCGCTACCATGAGGCCCCGAAAGCCTTCTGCTCCTGCTGCTCTTGGGGCTGGTGCAGCTGCTGG
CCGTGGCGGGTGCCGAGGGCCCGACGAGGATTCTTCTAACAGAGAAAATGCCATTGAGGATGAAGAGGAGGAGG
AGGAGGAAGATGATGATGAGGAAGAAGACGACTTGGAAGTTAAGGAAGAAAATGGAGTCTTGGTCTAAATGATG
CAAACCTTTGATAATTTTGTGGCTGACAAAGACACAGTGTGCTGGAGTTTTATGCTCCATGGTGTGGACATTGCA
AGCAGTTTGTCTCCGAATATGAAAAATTGCCAACATATTAAAGGATAAAGATCCTCCCATTCCTGTTGCCAAGA
TCGATGCAACCTCAGCGTCTGTGCTGGCCAGCAGGTTTGATGTGAGTGGCTACCCACCATCAAGATCCTTAAGA
AGGGGCGAGGCTGTAGACTACGAGGGCTCCAGAACCCAGGAAGAAATTGTTGCCAAGGTGAGAGAAGTCTCCAGC
CCGACTGGACGCTCCACCAGAAGTCACGCTTGTGTTGACCAAAGAGAACTTTGATGAAGTTGTGAATGATGCAG
ATATCATTCTGGTGGAGTTTTATGCCCCATGGTGTGGACACTGCAAGAACTTGCCCCGAGTATGAGAAGGCCG
CCAAGGAGCTCAGCAAGCGTTCTCTCCAATTCCCTGGCAAAGGTGACGCCACCGCAGAAACAGACCTGGCCA
AGAGTTTGTATGTCTCTGGCTATCCACCCCTGAAATTTTCCGCAAAGGAAGGCCTTATGACTACAACGGCCAC
GAGAAAAATATGGAATCGTTGATTACATGATCGAGCAGTCCGGGCCTCCCTCCAAGGAGATTCTGACCTGAAGC
AGGTCCAGGAGTTCTGAAGGATGGAGACGATGTATCATCATCGGGTCTTTAAGGGGGAGAGTGACCCAGCCT
ACCAGCAATACCAGGATGCCGCTAACACCTGAGAGAAGATTACAAATTTACCCACACTTTCAGCACAGAAATAG
CAAAGTTCTTGAAAGTCTCCAGGGGCGAGTTGGTTGTAATGCAGCCTGAGAAATTCAGTCCAAGTATGAGCCCC
GGAGCCACATGATGGACGTCCAGGGCTCCACCCAGGACTCGGCCATCAAGGACTTCGTGCTGAAGTACGCCCTGC
CCCTGGTTGGCCACCACAAGGTGTCAAACGATGCTAAGCGCTACACCAGGCGCCCCCTGGTGGTCTCTACTACA
GTGTGGACTTCAGCTTTGATTACAGAGCTGCAACTCAGTTTTGGCGGAGCAAAGTCTAGAGGTGGCCAAGGACT
TCCCTGAGTACACCTTTGCCATTGCGGACGAAGAGGACTATGCTGGGGAGGTGAAGGACCTGGGGCTCAGCGAGA
GTGGGGAGGATGTCAATGCCGCCATCCTGGACGAGAGTGGGAAGAAGTTCGCCATGGAGCCAGAGGAGTTTGACT
CTGACACCCCTCCGCGAGTTTGTCACTGCTTTCAAAAAAGGAAAACTGAAGCCAGTCATCAAATCCAGCCAGTGC
CCAAGAAACAAGGGGACCCGTCAAGGTCTGGTGGGAAAGACCTTTGACTCCATTGTGATGGACCCCAAGAAGG
ACGTCTCATCGAGTTCTACGCACCATGGTGGGGGCACTGCAAGCAGCTAGAGCCCGTGTACAACAGCCTGGCCA
AGAAGTACAAGGGCCAAAAGGGCCTGGTTCATCGCCAAGATGGACGCCACTGCCAACGACGTCCCCAGCGACCGCT
ATAAGGTGGAGGGCTTCCCCACCATCTACTTCGCCCCAGTGGGGACAAAAGAACCCAGTTAAATTTGAGGGTG
GAGACAGAGATCTGGAGCATTGAGCAAGTTTATAGAAGACATGCCACAAAAGTGAAGCAGGACCAAGGAAGAGC
TTTGAAGGCCTGAGGTCTGCGGAAGGTGGGAGGAGGCAGACACCCTGCGTGGCCCATGGTCCGGGGCGTCCACGCC
GAGGCCGGCAACAAACGACAGTATCTCGGATTCTTTTTTTTTTTTTTTTAAATTTTATACTTTGGTGTTCAC
TTCATGCTCTGAATACTGAATAACCATGAATGACTGAATAGTTTAGTCCAGATTTTACAGAGGATACATCTATT
TTTATCATTATTTGGGGTTTGAAAAATTTTTTTTACACCTTCTAATTTCTTTATTCTCAAAGCAGATAATTCT
TCTGTGTGAAAATGTTTTCTTTTTTAAATTAAGGTTTAAATTCCTTTGCCAAATCATGTTGATTTTGCTCTTT
GCTTTTTCTGTGTCTGAGAAATGTTGGCGTAGATTTGGCTTCTGGTATGTGTTCTGATTGCTTCTGTTGAGC
ACAAAGTGAGAGCTGCCACTGAGCAGCCCTGCCAGGGGTGCTGTTTCAGGCTGGGCATCGCCAGGGCGCCTCCCT
GCAAACCAAGGGCTGGGGGCAAAGGGGCATGATCCAGGGTCCCCAGGGTGGGCTCAGTCCAGGGAGAGGCCAC
CCACGTGGCAGCCCCACCTCTTGAGAGCCCCAGTGCCGGAGCAGAAAGGACCCTGGACCCAGAGGCAGATACTG
CGGGGTGGTAGAAAAGGTAGAGTAGGCTGTGGCAATGGAATAAAACACGATTAAAAACGTTAAAAA

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FIGURE 2443

MRPRKAFLLLLLLGLVQLLAVAGAEGPDEDSSNRENAIEDEEEEEEDDDDEEEDDLEVKEENGVLVLNDANFDNF
VADKDTVLLLEFYAPWCGHCKQFAPEYEKIANILKDKDPPIPVAKIDATSASVLASRFDVSGYPTIKILKKQAVD
YEGSRTQEEIVAKVREVSQPDWTPPPEVTLVLTKEFDEVNDADIILVEFYAPWCGHCKKLAPEYEKAAKELSK
RSPPIPLAKVDATAETDLAKRFDVSGYPTLKIFRKGRPYDNGPREKYGIVDYMIEQSGPPSKEILTLKQVQEFL
KDGDDVIIIGVFKGESDPAYQQYQDAANNLREDYKFHHTFSTEIAKFLKVSQGQLVVMQPEKFQSKYEPRSHMD
VQGSTQDSAIKDFVLKYALPLVGHKVSNDKRYTRRPLVVVYYSVDFSFDYRAATQFWRSKVLEVAKDFPEYTF
AIADEEDYAGEVKDLGLSESGEDVNAAILDESGKKFAMEPEEFDSDLREFVTAFKKGKLKPVKSQPVPKNNKG
PVKVVVGKTFDSIVMDPKKDVLIIEFYAPWCGHCKQLEPVYNSLAKKYKGQKGLVIAKMDATANDVPSDRYKVEGF
PTIYFAPSGDKKNPVKFEGGDRDLEHLSKFIEEHATKLSRTKEEL

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FIGURE 2444A

GCCGCCGAAGGGGACTGTTTGCTCCTACGGGCTGTAGATGGAGCTGTCCGGCCCCGGAGAGGGGGAAGGCGCCTG
GAAAACGTTTCTTCTTCTCCCTGGCCGACCCGAGCGGGGAACAGCACTCCCAGGATGCAGTTTGTGTCAACACGGC
CGCAGCCTCAGCAGCTGGGCATCCAGGGCCTGGGGCTGGACAGCGGGAGCTGGAGCTGGGCCCAGGCTCTGCCCC
CGGAGGAGGTCTGCCACCAGGAGCCGGCGCTGCGCGGGGAAATGGCCGAGGGAATGCCGCCATGCAGGCTCAAG
AATGGGACATGGACGCCCGGCGGCCAATGCCTTTTTCAGTTCCCAACCCTTTCCAGATAGGGCACCTGTCTTCCCCG
ACCGCATGATGCGAGAGCCCCAGTTGCCACAGCAGAGATCTCACTCTGGACTGTGGTGGCTGCCATTACGGCTG
TGGAGAGGAAGGTGGATGCCCAGGCCAGCCAGCTGCTGAACCTGGAGGGGCGCACGGGGACAGCCGAGAAGAAGC
TGGCCGACTGTGAAAAGACGGCCGTGGAATTTGGGAACCACATGGAGAGCAAGTGGGCCGTGTGGGGACCCCTGC
TGCAGGAGTACGGGCTGCTGCAGAGGCGGCTGGAGAACTTGGAGAACTTGTGCGCAACAGGAACCTTCTGGGTCC
TGCGGCTGCCCCCGGGCAGCAAGGGGGAGGCCCCAAGGTTCCAGTGACTTTTGTGACATTGCTGTGTACTTCT
CCGAAGACGAGTGAAGAAGCTTGGACGAATGGCAGAAGGAGCTTTATAACAACCTTGTAAAGGAGAACTACAAAA
CCCTCATGTCCCTGGACGCGGAGGGCTCAGTCCCCAAGCCAGATGCTCCAGTCCAGGCTGAGCCCAGGGAAGAAC
CTTGTGTGTGGGAGCAGCGCCACCCGGAAGAGAGAGAAATCCCAATGGATCCCGAAGCAGGAGCAGAGCCCCCTGG
TGCTGCGCAGGATGCGTCTCTCCAGGTGAAGCGTGAGGACACCCTGTGTGTCCGGGGTCAGCGGGGCTGGAGG
AAAGAGCCATCCCTACGGAATCCATTACCGACTCCCCAATTTTGTGCCAGGACCTCTTGTCCCGGATTAAACAGG
AGGAGCATCAGTGCGTGTGGGATCAGCAGGATTTGGCAGACAGAGATATTCCACGGATCCCAATTCAGAGTCTC
TCATCTCAGCACATGACATTTTGTATGGATCAAGCAGGAGGAGCAGCCATACCCATGGGGACCACGCGACTCAA
TGGACGGAGAGCTTGGATTAGACTCTGGCCCTAGTGACAGCCTGCTGATGGTGAAGAACCACCCCGGGCCCCGC
CACAGCCCCAGCCCCAGCCCCAGCCACCGCAGCCGAGCTGCACTGCGAGCCCCAGCCCCAGAGCCTGCCCCCA
TCGCGGTGGCCGAGAACC CGGGCGGCCCCCGAGCCGAGGGCTGCTGGACGACGGTTTCCAGGTGCTGCCCCGGG
AGCGTGGCTCCGCGAGGCGCGCGGGTGGGGACCGCAGCACCGGGGGCGGCGGGGGCGATGGGGGCGGTGGGG
GCGGCGGCGCGGAGGCGGGGACGGGGGCGAGCGGCGGCTGTGGCAGCTGCTGCCCTGGCGGGCTGCGGCGGAGCC
TCCTCTGACAGGCGCCCGCAGCAAGCCCTACTCGTGCCCCGAGTGCGGCAAGAGCTTCGGCGTGCGCAAGAGCC
TCATCATCCACCACCGCAGCCACACCAAGGAGCGGCCCTACGAGTGCGCTGAGTGCGAGAAGAGCTTCAACTGCC
ACTCGGGCCTCATCCGCCACCAGATGACGCACCGCGGCGAGCGGCCCTACAAGTGCTCGGAGTGCGAGAAGACCT
ACAGCCGTAAGGAGCACCTGCAGAACACCAGCGGCTGCACACGGGCGAGCGGCCTTCCAATGTGACCTGTGCG
GCAAGAGCTTCATCCGCAAGCAGAACCTGTCAAGCACCAGCGCATCCACACGGGCGAGCGCCCTACACGTGCG
GCGAGTGCGGCAAGAGCTTCCGCTACAAGGAGTGCCTCAAGGACCACCTGCGCGTGACAGCGGCGGCCGGGCC
CCGGCGCCCCACGGCAGCTCCCGCCGCTCTCTGAGCGAGACTAGGGCTGGGCTGGGGGAGGGGAGGGCCGACGG
AGTGGATCGGGGGCGGCTGAGCACCAACCACCTTGCCGGGTGTCTCAGCCACCGTCTGGAATCGGCAACAGG
CATTGCACTCCGTTTGGGGTCCCCAGGGTGGGGCAGGGATCCCCAGATCTGTCTGGTCTGAATGGACGCCCAG
CTCATCTAGGGTGGACCCAGCTGCTGGGGAAGAGCCAGGGGACCGCGAGGAGCCGAGCGTCTCGGGCACC GCC
CTCACACCTCTCGAGTGCCCTGGGACCACTGGGCCACAGATGGTCATCAGGGGAAGCCACCAGGGAGTCCCGAA
GCCCTTCTGAGATCAGGAAATCAGGTCCCAAGGTTAGGAGACGCCCTGAAAAAAGCGAAGGCCGAGGGATGTGC
TAAGGGTAACACCTTCATGATGACAACACTGCCCTCGCGTTTCAATAGCGCTTTATACCTTTTTTAAGTGTCTTA
TCCGTTATCCATTTACCCCTTGGCCTATCCCTCTCAGATAGGTGGGGTAGGATTTTCTGGTGACCGAGTAAAGT
GAGAGGCAGGTGAGACGGTTCACCCAATCACACGGGAAGGGGCGCGCTGCCCAACCGCGCTCTCCGCTACCT
CCGCTGCTCGGGAAGCTGCTGGCCTGGCCCTCCTGGTCTCTCTTCTTCTTCTGCTCTCTTCTTCTTCTGCTC
TCACCCACGGATAAAACAGAGAAGCGACAGGAGGCCAGCTCCTGGGGTTCTTGGGAGCCGGGAACAGATTGGCTAC
GGAACGCCCCAGGTTGTACATTAGAGGGCTCTTTCTCCATGGGAGCTCCTGGTGCCGCTCGGCCCCAGCCTGT
CCCCAGCCCTCAATCTGGTGCAGCAGCATCTTGTCACTGCACAACAGTGGCCTGGTCCCCACAGGCAGTTAGG
GCCCCAGGTACAGCTCACCATGATGATTGTTCAGTTCTCCAGGGCAGAGGGGCGAGGGAGAGGCTTTTGCT
GTGAGAGTAGCCGTACGTGTCTCTTCCCAGCAGCGCCGGGAAGTGGGTGCTAGAGTCTGAGCCTCAGGCTCTC
CTGCCCTGGGCTCCCAATTGGTGCTATCTGTACTGCGCGTGCTCACGGACATGGATACAGACCCTGCTGTGCT
CCACACCCTGAGCGCCTCGGGAAGCGCCCAAAGGATTCCCTTCACGTTGGTGCACCTGCTCCATAGCTCCGG
GCGCTGCGTCCCGAGGGGCCACAGTCTCAATTTACGCGTCTTGCATGGCCTGGCACCGGGTGGGGTGGTATGCC
CAGGACCCTTGTGTGTAATAAGTACTTTCCCTGCCCTTGGCGTGGGTCCGGCGTTCTCCAGCCGGGATCA
CAGTGGGCAGCCGGCACCCGGCACCACTTTGGCGAGCGTCTGCTTCCGCCCTCGCCCTCATCTACGCTGCTCCG

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FIGURE 2444B

CTTTCCTCAGACCCCTTTTTGCCGTGCAAAGGGAATTCTTGACATTAAATAAAAGGTATCCAGATTGCAGACTGC
ATGTTACAGAGCTGGGGGTTCTCCAGCTTGCCTACAGTAAAGCCTCAATGAACTGG

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FIGURE 2445

MQFVSTRPQPQQLGIQGLGLDSGSWSWAQALPPEEVCHQEPALRGEMAEGMPPMQAQEWMDARRPMPFQFPPFP
DRAPVFPDRMMREPQLPTAEISLWTVVAAIQAVERKVDAQASQLLNLEGRGTGTAEKKLADCEKTAVEFGNHMESK
WAVLGTLQLQYGLLQRRLENLENLLRNRFWVLRPPGSKGEAPKVPVTFVDIAVYFSEDEWKNLDEWQKELYNN
LVKENYKTLMSLDAEGSVKPDAPVQAEPREPCVWEQRHPEEREIPMDPEAGAEPLVPAQDASSQVKREDTLCV
RGQRGLEERAIPTESITDSPISAQDILLSRIKQEEHQCVWDQQDLADRDIPDNPSESLISAHDILSWIKQEEQPY
PWGPRDSMDGELGLDSGPSDSLMLVKNPPPPAPPQPQPQPQPQPQLQSQPQPQSLPPIAVAENPGGPPSRGLDD
GFQVLPGERGSGEAPPGGDRSTGGGGGDDGGGGGGAEAGTGAGGGCGSCCPGGLRRSLLLHGARSKPYSCPECCK
SFGVRKSLIIHRSHTKERPYECAECEKSFNCHSGLIRHQMTHRGERPYKCSECEKTYSRKEHLQNHQRLHTGER
PFQCALCGKSFIRKQNLKQRIHTGERPYTCGECGKSFYKESLKDHLRVHSGGPGPGAPRQLPPPPERD

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FIGURE 2446

TCTTGTCCCGGATTAAACAGGAGGAGCATCAGTGCCTGTGGGATCAGCAGGATTGGCAGACAGAGATATTCCCA
CGGATCCCTCGGGAAGCGCCCAAAGGATTCCCCITCACGTTGGTGACCTGCTCCATAGCTCCGGGCGCTGCGTC
CCGAGGGGCCACAGTCTCCATTTACAGCGTCTTGATGGCCTGGCACCGGGTGGGTGGTATGCCCCAGGACCCTT
GTTTGTGTCAAAAATGACTTTCCCTGCCCTTGCCGTGGGTCCGGCGTTCCCTCCAGCCGGGATCACAGTGGGCAG
CCGGCACCCGGCACCCTTTGGCGAGCGTCCTGCTTCCGCCCTCGCCCTCATCTACGCTGCTCCGCTTTCCTCAG
ACCCCTTTTTGCCGTGCAAAGGAATTCTTGACATTAAATAAAAGGTATCCAGATTGCAGACTGCATGTTACAG
AGCTGGGGGTTCTCCAGCTTGCTACAGTAAAGCCTCAATGAACTGG

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FIGURE 2447

AGTGCCTGCGCTTCTTCCAGCAGCGCAAGAGCCTGCTGCTGCACCAGCGCCTGCACACCGGCAATGGCCAGGGCT
GGCCCGCCTGCCCCCTACTGCGGCAAGGCCTTCCGCCGGCCCTCGGACCTCTTCCGGCACCAGCGCATCCACACCG
GTGAGCGGGCCCTACCACTGCCCCCAGTGTGGCCGGACCTTCAACCGCAACCACCACCTGGCCCTGCACATGCAGA
CCCACGCCCCGAGGCCAGGTGGGCCCACACTTCCCTGCCGCCCGCCCGCCACGGGAGCCTGCCCTGCCCTGGC
CCAGCCGGAAGGAGGAGGGCTGACCTGGCAGGAGCCACAGAGGACCCCTGGCGGGGTCTCTCCCTGTGCCTGA

CGCAGGTTCTTCCTTTTCTGGGATGGAGAGAGGTTTGTGTTTTTACCCATTCAAATGGGAAGCTAGCTGCCCT
TCTGGTGACATTGTGTGTGACCGGTGCTTCTGTTTTCTGTTTGCACCTCTTCGCTGCCTTTTCTGCATTCTTGA
CTTCTAAAAGATGCCTTAAGGCTTAAGGGATGCCATATTTTGGATAAGGCCTCTGGTAGGTACCACAGCCAAGAG
GACCAGAGATCATGGCCCTTCCAGTATGGGGCGATAGAGACATCGGGGACCTGGGATTTTTGTTTTGTGTCAGAG
ATCTCTGCCTGCTGTCAACCATGAGAAACAGTGGAGTGGAGTGGATGGATGGCTGACTTGAAGAAAGGGCCCTG
GAAAGTTTTCTACTTTGCTATTTTGAATTTTTTCCCTTCTTATAGAGACTTTGAAATACTTTTGTAAATGTGT
GTAGTTGTTAATGGAACTTGCTTTTTGCAAAGTCGGAAAGAGTCGGCTTTTCCATGTGAGGCTCGCAGAGCTGA
AAGGGGAGCTACGTCCACCAGCCTGTGGGTCTTTTGGTTTTTTTTTGTGTTGTTGTTTTTTAAGATGGA
GTTTCACTCTTGTGTCAGGCTGGAGTGAATGGTACAATCTCCGCTCACTGCAACCTCCGCTCTCGGGTTCA
GGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGCCACCACCCTCCCGGCTAATTTTTGTA
TTTTTAGTAGAGACAGGGTTTCATCATGTTGTCCAGACTGGTCTCGAACTCCTGATGTTAGGTGACCCGCACACC
TCGGCTCCTGAAGTGCTGGGATTACAGGCGTGAGCCACCCTCTTGGCCAGCCTGTGGGTTTTGATGGGGATG
TCTTGGCTGCTGCTTGGAGGCACAGTGTCTCCCCATGTGTGTGTTTCTTGGCCAGAGTGACTCCCACTATTCC
TAGTCTTCCCCACAGGATAGTCACATCCATTATTTACTTTTGTGTGCTAGCTGGGAGGGGAACTGAAGCCTGGA
CACGTCTCCCCAAGGGCTCAGTGTTTCATGGGTGTGTAAGATCCATTGACTGGACCCAGAAAGCACCCCTGAGGGG
CAGTGCAGAGAGAGCCAGGAAGCCCTCCACTAGAGGAGGCCCTTGGTCTGGCTGAGGACCAGTCCACCCTGG
GCCTCCAGGCCTGCTTTTACATTAAAGGCGGGGCAGTCTCCTCTCAAAGGAGTTCTCCCTTGAGCACTTTGGGC
TCTGGGCGAGAGTTGGGCTAGGAGATCTGGGTGAATCCTTTAGTCACAGCTAGTCTCATGTTCTCTTGTCAA
AGGGGTTCATGGCCCCAGTGTGCTTACCTCAGAGTTGTGAGGGTCAAAGTAACAGGCACTGGGACAAATATGAAG
CCTAGCTTTGTGCTTCTTTCAAATTCAGGGCCTCCTTTCTACTCCATTCCAGCCTTTTTTCTCTGCAGAATCC
CTCAGGAAGGACCTTTATCTTCTGGAGTGAGTGGCAGTTCCACTGGGTTCAGTGAAAGAGTCGCCCATGGGGCTC
TGTTCCCCAGGAGTCCTTTGTATTTTGGTGAAACAAATCTTACCAAAGCATGAGATTCCGACTGTAGAAGTTTCA
ACTGCCTCAGTTCAGACTGCCTCATGGGGCAGTCTGGAGGTGAGTGGCTTCTGGTGTCTCTCATCACACCACTG
CGGACGCTGTCTGTAGAGCAGCCTTGGTGTGGGTGACTCTGAAGCTGGAGTGATGGGACCCAGCTATCCTTGT
TTTTACCGCCTTGTCTGGCACTGTGACCACGCTTCAGGGCTGCTTCTGGGGGTCTTGGTCCCTGGATGTGCCATT
TCCTTGCCCTTCTGACCCCTCACACTTCTTCCAAAGTCTTGAGCAGAGTTGGGGGCAATGGTAGCATTGCTGTCA
TCTCTGGGAGGAGAGTGAGTATACAAGTCAGTGACAGTTACGCCAGGCTCCCTTGGGTTTGGGAAGAGGCACTGC
CCTTCTGTGCTGTGGATCCTGCTTGTCTGCTCTGGAGTCCCCCACCCTTGCCAGGAGCTTCACAAACCAGAGAC
GGGCTGTGAGCAAGAGCTCAGACAGGATGTGGTGCAAGTGCAGGTGCACAGTTTAACCCTCAGTGCAGGAGCT
AGTCTCAGGTGTTCTGGGGATGCCTCAGGCTAAGAATTTTCCGACTTTCTGGGCTTGGTTGGCTAATGCCAAAT
GCCCCTGCTTAAATATCACAAGGTGCTGATTCTCCTTTTTTCTTTTTTTCATACCAATGTGCTCAAACCTTGAGC
TAGGTCTTGTGAGTTTGCCTAGCACTCAGACCTGTTAAGTAACGTTCTTTACATTGAAACAAGTCAACCGAAGC
TTTGTGGTGCAGGAGCTGAGGGTGCCCCAGACTCAGTGGGAGCCCTGGTTGGGCCCCAACTCTCCAGCAGGGT
CCTCGGTTTCTCATTTGTGAAATAAATGAGTGGGCCACAGCTTAATAAGCCCAAGAGAAGTGTGAAGGTGTA
GTCCCTTGCCCTAATTGGTGCTCAATAAAGTTGTGGCAT

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FIGURE 2448

MARAGPPAPTAARPSAGPRISSGTSASTPVSGPTSAPSVAGPSTATTTWPCTCRPTPEARWAHTSLPPPPATGAC
PCPGPAGRRRADLAGAHRGPLAGSLPCA

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FIGURE 2449

GCACGAGGCCAGCTTGGCCAGTGGCTCCGCAGGCTGCCGGCTCCACCCCTCAGGGACTGGCTGGCTTCGAGCAGG
GCATCGGAACCAGGCCTCCTGGCACTGGCCTGGGTAGAGCCAGGGCGAGCACCAGCTGACCCCCAGTGGAAACCT
GTGACAGTCCTGCCAGGGCCCAGGCCATCCCAACCGACTTCCATCTCATGGACCCTCCAGCGGAGAAGCCGGGAG
AGGCTGGCGGACTGCAGATCACACCCCAGCTGCTGAAGTCACGCACAGGCGAGTTCTCCCTGGAGTCCATCCTGC
TACTGAAGCTGCGTGGCTTGGGACTGGCTGACCTGGGCTGCCTGGGAGAGTGCCTGGGCCTGGAGTGGCTGGACC
TATCAGGCAACGCGCTCACCCACCTGGGCCCGCTGGCCTCCTTGCGCCAGCTAGCTGTGCTCAATGTCTCCAACA
ATCGGCTGACGGGCTGGAGCCACTGGCCACCTGTGAGAACTGCAGAGTCTCAATGCCGCAGGCAACCTACTGG
CCACCCCGGGCCAGCTGCAGTGTCTGGCTGGGCTACCGTGCCTGGAGTACCTGCGGCTCCGAGACCCCTTGGCCC
GGCTCAGCAACCCGCTCTGTGCCAACCCCTCCTACTGGGCTGCAGTCCGGGAGCTGCTGCCTGGCCTGAAAGTCA
TCGACGGTGAGCGTGTGATTGGGCGTGGTAGTGAGTTCTACCAGCTGTGCCGAGACCTGGACAGCTCCTTGCGTC
CCAGCTCCAGTCCAGGCCCCAGAGCCACCGAGGCCAGCCCTGGGTGGAGCCAGGCTACTGGGAGTCCCTGGCCCA
GCCGGAGCAGCTCCATCCTGGAGGAGGCCTGCCGGCAGTTCCAGGACACACTGCAGGAGTGTGGGACCTGGACC
GCCAGGCCAGCGACAGCCTGGCCCAGGCGGAGCAGGTACTCAGCTCTGCGGGCCCCACCTCTTCCTTCGTCTTCT
GAACGTGGCCTATGGCCCAGGACAGCCTGGCAGGTGGCCTCGCTGCCCCCAGTTCCCTCTCTGCCCCCAGCTC
GTCTTAGTTGCTTCACACTGGTCACTGGCCCTGCACACTGGGCTATTGCTTTATCCCTATCCTGAGAGCAGCCCC
TCCCCACCATCCCTCCACATGCTGCAAGGACAGACTGAAGGGCTGTGAGCAGGTGTAAGGGCTCCCACATCCGTG
AGCCTGTGTCCGAGCTGCTGCCACTCTGGGCTGCTCCAGCCTGCAACTTAGTGGAAGGAATTACTTCCTCCTGA
GGCTACAGGCGAGAAAGGTAGGGATGGGCCAGCCTCCCGTCTCAGCTGTTGGGAGACAGTAGGCAGGCTGAGTGG
CCCAGAGCACTCCTGGAAGTGGGACTCCCCTGCCTTGCAAATGTGCCTCTCCAGACTGCTCCTGCACTTACCCCC
TCCCCGCAGCACCTTCTCTGCCCGTTCTTGTCCACACATCTATTAAATGCTTCTGTTTTCAAAAAAAAAAAAAA
AAAAA

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FIGURE 2450

MDPPAEKPGEAGGLQITPQLLKSRITGEFSLESILLKLRGLGLADLGCLGECLEWLDLSGNALHLGPLASLR
QLAVLNVSNNRLTGLEPLATCENLQSLNAAGNLLATPGQLQCLAGLPCLEYLRDRDPLARLSNPLCANPSYWAAY
RELLPGLKVIDGERVIGRGSEFYQLCRDLDSLRPSSSPGPRATEAQPWVEPGYWESWPSRSSSILEEACRQFQD
TLQECWDLDRQASDSLAAEQVLSSAGPTSSFFV

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FIGURE 2451

GGCAGGCACCAGCTGGGGAAGGCTGGTGTTCCTTGTTCGGCCACATTCTGGAGCCCGGCAGACAGCCTCAGCAAG
CTCCTGTAGCCCTTCCAGATGGTGGTCCGCGAGGCGAGTGCGGCACAGGCCTCTCTGAGCCAGGTGCTGCCCCAG
CTGCGCTACCTGCACATCTTCTGGAGCAGGTTACACACACTTTCAGGAGCAGAGTGTGCGGGGAGAGGGGCGCA
GCCATCCAGCTGGCTGAGGGGTGGCCCGGCAGCTCTGCACCGACTGTGAGCTCAACAAGCTCTTCTACCGCGAG
GAGTTTGTCTGGCCACCTTGTGGACCCTTGTCTCAAGGGGAAGATTGAGGCCATCCTGCCATGGGGGCGGAGC
GACATTGACCACTGGAAGCAAGTCCTCGTGTACAAGGTGAAGGAGATTAGAGTGTCTGAATACTCTTTGAACTCC
CCAAGTCCCTGCAAAGCCCCAGGGGTCTGTGCGTGGACCCCCACCAGGGTAGCCAAGAGCTCCGGGGTGGAGGGG
AGAAGCCAGGGGGAGCCTCTGCAGAGCAGCAGCCACTCTGGGGCCTTCTGTCTGGCCCAGAGGGAGAAGGGCTTG
CTGGAGAGCATGGGGCTGTGGCCTCTGAGAGAAGCGGGGGGCTCGCTGTCCACCAAGAGCCACTGGGCCAGCATC
ATTGTCAAGAAGTATCTGTGGGAGAATGAGACCGTTGGAGCCCAGGATGACCCCTGGCTTACTGGGAGAAGAAG
CGAGAAGCCTGGGCACCATCTATCTGTCTTACCCCCACAGGAGCCTTCTCTGAAGCATCTTTGCCCTCCCTGAA
CAGCCCCACCCTTGTAGAGCAAACTCTTCTCTCAAGGTGGAAGCCATTGAGCATCTCCTCTTCTTGAAGGCCAA
CCTGGAGCAGTTCCCCAACTACACCCCGCCTCCCTCATCTGTCTAGTGGTGACCTGGCCAAGGGGATACAGAC
CCTGCAGTCCGCTCAGGGTGGGATGGCAGACATGGCAGGTGCCGGTGCTCACCTGCCCGTGAACCTCTAGAGAG
CCCCTGCCTGTAATAGGTCAAAGCAGAGAGCTGGGTGTTGCATCCTGGGCGCCACATGCTCATGGCCAGAATCTT
AAACCTATTGGTAGGAAAGGGTCAGTTTCTCACTTGACAGATTGCCATATTTTTTTTCTGGGAGATGTCATTT
TCCATCTCCCGATTACTTCTTTACGTCTAGCAGTATGTGCCGAGAAGAGGCTTACTCTCTTCGTAGGTGACTGT
GAATTTTGTACTACGTGGCTTTGTACATGTGATGCTCTGTTAAACATAAGTGGGTATGAAGGTCCTTGACATACA
CCTTGTCTGTGTGGATAAGTGGACACATGCCCTTAAGAGGCTTGCTTTCTCAAAAAGTGGCCAAGGATGTGGAGT
GGGCATGTGCTGGCAGGTGGGATATGTCTCAGCCTTTGGGGGCTGGATAAGCTATTGCAGCACTTTCTGAGGC
TTTCACTGTAGGGAGAAGGAAACCCCAAGGGTAGAATAGCCATTTCCAGAGGGAAGTACACACATACCCCCACAC
ACCAGTCTTTTTGGGGGTTTCAGAGTGGCCGGAGAAACCGACTGAAGGGACTGACCAGCTAGCTAGGAGAGCTGA
GACGCCAGTCTCAAATGGCGTTCTTACCAATAGTCTATTTCCAGACTACTGGAACGTTGGGGTTTCTTCCTCC
AGTGACAGCAGCCTCAGTAGCTTTCTGGGCTCCAGGCGGCTGGCTGCACACCCTGCCTGCCATCACCTTGCCC
CTGCTTGTCTGACCACCTTTTAAAGGGGAAGTCCCTTATTTGGAAGAGAGAAAGGATGTGTGTAGCACACACTC
ATCATGGATTGCTCAGAGTTCCTTTAGGGCAGAGCTGAGGGCCTGGGATCCAGGAACCAGTGGGATTGGATGGGA
GAAGAAGGAAGGGGGTGGCCCGTCACCCCGCAAGACTTGATCCAGGTAGCCTAAGGACTCCTGGTCACTGGGT
AGGGTGGCTGCTGAGATGCAGGTGCGAAGAGGCAGGGGAAGGCTCCAGGCCTAACTTGGAGCATGTCACTGGCCA
TGGGGGTGAGGGGACAGACTCTGCTCTCACTGGCTGGCAGCCCCAGGAGCCTGTTCCCTTGCTCTCCTGGATGG
GTTGTGAGCCCTGTGTTTCACTGTGACCAATTCATTATAACATTTGGATATTACTGAAAATGTAAGGAAGCAGGA
AAAATTAATACTTTTCACTCAGAGATAGCCTCTATCAATAGTTTGACATTTTCCCTCTTTTACATTGAGATCAT
ACCCTAGGTACTGTTTAGTATGCAATATTTTCATTTTCGCAGTATAATAATTGCACCTGTAAATAAAGTTTTGT
AAACATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2452

MVVREASAAQASLSQVLPQLRYLHIFLEQVHVFQEQSVGERGAAIQLAEGLARQLCTDCQLNKLFYREEFVLAT
LLDPCFKGKIEAILPWGPTDIDHWKQVLVYKVKEIRVSEYSLNSPSPLOSPRGLCVDPTRVAKSSGVEGRSQGEP
LQSSSHSGAFLLAQREKGLLESMGLLASERSGGSLSTKSHWASIIVKKYLWENETVGAQDDPLAYWEKKREAWPP
SICLTPHRSL

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FIGURE 2453

CTTGAAATGTTATCTAAAAACCCAAGATTGAAATAATACATACCACACAAGGAAACAGGAGAGTAGTCTAGCTCC
ATGTCCGGGGCTCTAGGGGTTTCATAGATGGCAGCTCCTGTCCGGGGCTGAGGTTGGGAGGGGAGAAACAGGGGCA
GAGTGAGTTGGTCTCTGGAGTGACTGTGCTTTTCCACCCCTCAGCAGAGGAAGAACCAGATGCTGGAACGTCGTTGC
AGGGGCCCCCTGGCCATGGGCCTGGCCAGCCCCGACTCCTTTCTGGGCCCTCCAGGAGTCACCCCAGACCCTG
GGGAAGGAGTCCCGCGGGCTGAGGCAACAAGGCACGTACGTGGCCCAAGCTGCTGGTGGCCCAAGCCCCAGGCAGGGCC
CATCGCTGTGCCCACGTGTCGAAGGCACTTCCCTGGCTGGGTGGCTCTGTGGCTTCACACCCGCCGGTGCCAGGCC
CGGCTGCCCTTGCCCTGCCCTGAGTGTGGCCGTGCTTTGCCCATGCCCCCTTCTTAGCACTGCACCGCCAGGTC
CATGCTGTGTGCCACCCAGACCTGGGCTTTGCCTGCCACCTCTGTGGGCAGAGCTTCCGAGGCTGGGTGGCCCTG
GTTCTGCATCTGCGGGCCATTAGCTGCAAGCGGGCCATCGCTTGTCCCAAATGCGAGAGACGCTTCTGGCGA
CGAAAGCAGCTTCGAGCTCATCTGCGGCGGTGCCACCCCTCCCGCCCCGAGGCCCCGGCCCTTCATATGCGGCAAC
TGTGGCCGGAGCTTTGCCAGTGGGACCACTAGTTGCCACAAGCGGGTGACGCTAGCTGAGGCCCTGGAGGAG
GCCGAGCCAAGGCTCTGGGGCCCCGGCCAGGGGCCGCCCGCGGTGACCGCCCCCGGGCCGGTGAGATGCC
GTCGACCGCCCCCTTCCAGTGTGCTGTTGTGGCAAGCGCTTCCGGCACAAGCCCAACTTGATCGCTACCGCCGC
GTGCACACGGGCGAGCGCCCCACAGTGCCCCGAGTGCGGGAAGCGCTTTACCAATAAGCCCTATCTGACTTCG
CACCGGCGCATCCACACCGGCGAGAAGCCCTACCCGTGCAAGAGTGCGGCCGCCGCTTCCGGCACAACCCCAAC
CTGTGTCTCACAGCAAGATTCAAGCGATCCGAGGGGTGCGCCAGGCCGCCCGGGCCGGGAGCCCCCAG
CTGCCAGCCGGCCCCCAGGAGTCCGCGGCCGAGCCACCCCGCGGTACCTCTGAAACCGGCCAGGAGCCGCCG
CCAGGGGCCCCGCCAGAGCACCCGCAAGGACCCGATCGAAGCCCCCCCCCTCCCTCTACAGCTGCGACGACTGCGGC
AGGAGCTTCCGGCTGGAGCGCTTCTGCGGGCCCCACAGCGGCAGCACACCGGGGAGCGGCCCTTACCTGCGCC
GAGTGCGGGAAGAATTGCGCAAGAAGACGCACCTGGTGGCGCACTCGCGCGTGCACTCCGGCGAGCGGCCCTTC
GCCTGCGAGGAGTGCGGCCGCCGCTTCTCCAGGGCAGCCATCTGGCGGCGCATCGGCGGACACGCCCCCGAT
CGGCCCTTCGTGTGTCCGACTGCGGCAAGGCCTTCCGCCACAACCCCTACCTGGCGGCGCACCGGCGCATCCAC
ACCGGCGAGAAGCCCTACGTCTGCCCGACTGCGGCAAGCCCTCAGCCAGAAGTCCAACCTGGTGTGCAACCGG
CGCATCCACACGGGCGAGCGGCCCTACGCCTGTCCGACTGCGACCGCAGCTTACGCCAGAAGTCCAACCTCATC
ACCCACCGCAAGAGCCACATCCGGGACGGCGCCTTCTGCTGTGCCATCTGTGGCCAGACCTTCGACGACGAGGAG
AGACTCCTGGCCACCAGAAGAAGCACGATGTCTGAGACGGTGGGCGGGGCCGTGTGGCTGAGAGAGGGCTGGG
GTCCCTTCGTGGTGGGAGTCGCACTGGGCTGGGGGTGCTGCTAGTGCTGGAGTAGGGGACAATGGGAATCCTAG
AGGGGATGGAAGACGCGGGGAGTGAGCTGGGTGGGCCCTGCTAGCGAGAGAGGTCAACCCCGTGCCAGGGAAC
CCACTTCCAAGCGCAGGGACGCGGCCCTCCAGCTGGTGTGTGCTAAGGCTCCGTCCTGACTGCCCTGTGCCCTGG
AAAAGCAGCAATAGCATCCGCCCCCTTAGAGCCCTCTGGCTAGAGGAGCCACAGTGGAAGGAAGACCCTCCATC
CTCTGGTATTAACGCCTTAATGCCCCCTGTCTTTTACTGTAAGTTACTTAAGATCATTTTGGGAAGCAGCGGTGGT
AGAGTCCTGTAAATGAATGCTCTGGGCTAGATACAGCTTGGAGAACCTGCTGGCCTTGTTAGACAGCACTTGGG
CTTTGCCAGCAGCAAGAGGTGAAGCGAAGCCACTCTTACCTCTCCCTTCCCTCCACCTGCCCTGCGTAGGC
ACCCAGACTTGGAGAGACCGTCTGCTGTTAATACTTCCATCCTCTTCTTCCAAAGAGCAGATCCCAAGGCAT
TTACTCCTTGGTCTGTCTCGCTTTATCTGTGCCCCCTCCAGCGCTGAGAGCCTCCCTGGCTGTGACGAGCACT
GTGTCCAGGCTCTTGTCTGAACACCGCAGCCCCCTCCTTCGCTCCTTCCAGAGCTCAGCATGTACGCGCAAGGACT
GCCGCATTGGTGATGGAGGGCCAGCTGAGGGGAAGTTGCTGGTGAGTTTCCTTTTCTCCATTTCTAGCATATGGA
CACCTGGCCTCTGCTTGAGCACTTAGGTGACAGGAACCTCCGCACCTCCTGAGGCCCTGGATGATTCTAATTGTT
AGAAATTCTAATTGTTAGAAATCCTTCTTATAATGAATGAATTCTGCTTTCTTATAATTTCTACCTATTGGGCC
TTGTTCTGTCTCTGGAATAAACAGAACACCAATTTACCCCTCCTTTTCAAACCTAGAGAATAAAGATTGGTTT
TAG

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FIGURE 2454A

GGGGAGCCGGGAGCCGAGCGAGGACCCGGCGCCCGCAGTCCAGTCTTGGCCGCGCCCGTGCTCGGCTTGGCCGCG
GGGTGCGGGGACCACGGCCCGGCCGGGCCACCCGAAGCCTAGTGCTGGGCCGGGCCGGGGTGGGTGGGGG
CCCGCCCGGCCCGCCATGGGCTCAGGATGCCGGTGCAGGAGGGGCCACGTGCGCGCCGAGAACACCTTCTGGAC
ACCATCATCCGCAAGTTTGGAGGCCAGAGCCGTAAGTTCATCATCGCCAACGCTCGGGTGGAGAACTGCGCCGTC
ATCTACTGCAACGACGGCTTCTGCGAGCTGTGCGGCTACTCGCGGGCCGAGGTGATGCAGCGACCCCTGCACCTGC
GACTTCCTGCACGGGCCGCGCACGCGAGCGCCGCTGCCGCGCAGATCGCGCAGGCACTGCTGGGCGCCGAGGAG
CGCAAAGTGAAATCGCCTTCTACCGGAAAGATGGGAGCTGCTTCTATGTCTGGTGGATGTGGTGCCCGTGAAG
AACGAGGATGGGGCTGTGCATCATGTTTCATCCTCAATTTGAGGTGGTGGTGGAGAAGGACATGGTGGGGTCCCCG
GCTCATGACACCAACCACCGGGGCCCCCACCAGCTGGCTGGCCCCAGGCCGCGCCAAGACCTTCCGCCTGAAG
CTGCCCCGCGTGTGGCGCTGACGGCCCGGGAGTCGTGGTGGCTGGGCGGCGGGCGCGGGCGGCCCG
GGGGCCGTGGTGGTGGACGTGGACCTGACGCCCCGCGGACCCAGCAGCGAGTCGCTGGCCCTGGACGAAGTGACA
GCCATGGACAACCACGTGGCAGGGCTCGGGCCCGGGAGGAGCGGCGTGGCTGGTGGGTCCCGGCTCTCCGCC
CGCAGCGCGCCCGGCCAGCTCCCATCGCCCCGGGCGCACAGCCTCAACCCGACGCTCGGGCTCCAGCTGCAGC
CTGGCCCGGACGCGTCCCGAGAAAGCTGCGCCAGCGTGGCGCGCGCTCGTGGCCGACGACATCGAGGCCATG
CGCGCCGGGTGTGCCCCCGCCACCGGCCACGCCAGCACCAGGGGCCATGCACCCACTGCGCAGCGGCTTGCTC
AACTCCACCTCGGACTCCGACCTCGTGCGCTACCGCACCATTAGCAAGATTCCCAAATCACCTCAACTTTGTG
GACCTCAAGGGCGACCCCTTCTTGGCTTCGCCCACAGTGACCGTGAGATCATAGCACCTAAGATAAAGGAGCGA
ACCCACAATGTCACTGAGAAGGTCACCCAGGTCTGTCCCTGGGCGCCGACGTGCTGCCTGAGTACAAGCTGCAG
GCACCGCGCATCCACCGCTGGACCATCTGCATTACAGCCCCCTCAAGGCCGTGTGGGACTGGCTCATCTGTG
CTGGTCATCTACAGGCTGTCTTACACCCCTACTCGGCTGCCTTCTGCTGAAGGAGACGGAAGAAGGCCCGCT
GCTACCGAGTGTGGCTACGCTGCCAGCCGCTGGCTGTGGTGGACCTCATCGTGGACATCATGTTTATTGTGGAC
ATCTCATCAACTTCCGCAACCATACGTCAATGCCAACGAGGAGGTGGTCAGCCACCCCGGCCGATCGCCGTC
CACTACTTCAAGGGCTGGTTCCTCATCGACATGGTGGCCGCGCATCCCTTCGACCTGCTCACTTCGGCTCTGGC
TCTGAGGAGCTGATCGGGCTGTGAAGACTGCGCGGCTGTGCGGCTGGTGGCGGTGGCGCGGAAGCTGGATCGC
TACTCAGAGTACGGCGCGCGCGTGTCTTGTCTATGTGCACCTTTGCGCTCATCGCGCACTGGCTAGCCTGC
ATCTGGTACGCCATCGGCAACATGGAGCAGCCACACATGGACTCACGCATCGGCTGGCTGCACAACCTGGGCGAC
CAGATAGGCAAACCTACAACAGCAGCGGCTGGGCGGCCCCCTCCATCAAGGACAAGTATGTGACGGCGCTCTAC
TTCACCTTCAGCAGCCTCACCAAGTGTGGGCTTCGGCAACGTCTCTCCAAACCAACTCAGAGAAGATCTTCTCC
ATCTGCGTCATGCTATTGGCTCCCTCATGTATGTAGCATCTTCGGCAACGTGTGCGGCATCATCCAGCGGCTG
TACTCGGGCACAGCCGCTACACACACAGATGCTGCGGGTGGCGGAGTTCATCCGCTTCCACCAGATCCCCAAT
CCCCGCGCCAGCGCTCGAGGAGTACTTCCAGCAGCCTGGTCTTACACCAACGGCATCGACATGAACGCGGTG
CTGAAGGGCTTCCCTGAGTGCCTGCAGGCTGACATCTGCCTGCACCTGAACCGCTCACTGCTGCAGCATGCAAA
CCCTTCCGAGGGGCCACCAAGGGCTGCTTTCGGGCCCTGGCCATGAAGTTCAAGACCACACATGCACCGGCCAGG
GACACACTGGTGCATGCTGGGGACCTGCTCACCGCCCTGTACTTTCATCTCCCGGGGCTCCATCGAGATCCTGCGG
GGCGACGTGCTGGCCATCCTGGGGAAGAATGACATCTTGGGGAGCCTCTGAACCTGTATGCAAGGCCTGGC
AAGTCGAACGGGGATGTGCGGGCCCTACCTACTGTGACCTACACAAGATCCATCGGGACGACCTGCTGGAGGTG
CTGGACATGTACCTGAGTTCTCCGACCACTTCTGGTCCAGCCTGGAGATCACCTTCAACCTGCGAGATACCAAC
ATGATCCCGGGCTCCCCCGGCAGTACGGAGTTAGAGGTGGCTTCAGTCCGCAACGCAAGCGCAAGTTGTCTTC
CGCAGGCGCACGGACAAGGACACGGAGCAGCCAGGGGAGGTGTGCGCCTTGGGGCCGGGCCGGGCGGGGCGAGG
CCGAGTAGCCGGGGCGGCCGGGGGGGCGCTGGGGGGAGAGCCGCTCCAGTGGCCCCCTCCAGCCCTGAGAGCAGT
GAGGATGAGGGCCAGGCCGAGCTCCAGCCCCCTCCGCTGGTGCCCTTCTCCAGCCCCAGGCCCCCCGGAGAG
CCGCCGGGTGGGGAGCCCTGATGGAGGACTGCGAGAAGAGCAGCGACACTTGCAACCCCCGTGACGGCGCCTTC
TCAGGAGTGTCCAACATTTTACGCTTCTGGGGGGACAGTCGGGGCCGCCAGTACCAGGAGCTCCCTCGATGCCCC
GCCCCACCCCCAGCTTCTCAACATCCCCCTTCTCCAGCCCGGGTGGCGGCCCGGGGCGACGTGGAGAGCAGG
CTGGATGCCCTCCAGCGCCAGCTCAACAGGCTGGAGACCCGGCTGAGTGCAGACATGGCCACTGTCTGACGCTG
CTACAGAGGCAGATGACGCTGGTCCCGCCGCTACAGTGTGTGACCACCCCGGGGCTGGCCCCACTTCCACA
TCCCCGCTGTTGCCGCTCAGCCCCCTCCCCACCTCACCTTGGACTCGCTTCTCAGGTTTCCAGTTTCATGGCG
TGTGAGGAGCTGCCCCGGGGGCCCGAGAGCTTCCCCAAGAAGGCCCCACACGACGCTCTCCCTACCGGGCCAG

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FIGURE 2454B

CTGGGGGCCCTCACCTCCCAGCCCCCTGCACAGACACGGCTCGGACCCGGGCAGTTAGTGGGGCTGCCCAGTGTGG
ACACGTGGCTCAGCCAGGGATCAAGGCGCTGCTGGGCCGCTCCCCCTTGGAGGCCCTGCTCAGGAGGCCCTGACCG
TGAAGGGGAGAGGAACTCGAAAGCACAGCTCCTCCCCAGCCCTTGGGACCATCTTCTCCTGCAGTCCCCTGGG
CCCCAGTGAGAGGGGCAGGGGCAGGGCCGGCAGTAGGTGGGGCCTGTGGTCCCCCCTGCCCCTGAGGGCATTAG
CTGGTCTAACTGCCCGGAGGCACCCGGCCCTGGGCCCTTAGGCACCTCAAGGACTTTTCTGCTATTTACTGCTCTT
ATTGTTAAGGATAATAATTAAGGATCATATGAATAATTAATGAAGATGCTGATGACTATGAATAATAATAATTA
TCCTGAGGAGA

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FIGURE 2455A

AGTCCAGAGCGAGCGGGTTATGCCTCCGCCTCGTTGCCCTGAAAGCCGCGAGCGACAGCGAAAAGGGCTAAGATT
GGCCATGAGCAGCGCCCCTCGGCGCCCCGCCAAGGGCGCAGATTCTTTCTGTACGCCAGAGCCAGAGAGCTTGGG
CCCTGGGACGCGCTGGGTTCCCCGAGCAGGAGGAAGACGAACTTCACCGCACCTTGGGCGTGGAGCGGTTTGAGGA
GATCCTACAGGAGGCCGGGTCTCGTGGAGGGGAGGAGCCAGGCCGAGCTATGGGGAGGAAGACTTTGAGTACCA
CCGCCAGTCTCTCCACCACATCCATCACCCACTGTCCACCCACCTGCCTCCGGATGCACGCCGCCGAAGACACC
CCAGGGCCCAGGACGGAAGCCTCGAAGGCGCCCGGGAGCCTCCCCGACTGGAGAAAACCCCGACCATTTGAGGAGGG
GGAGGAAGATGAGGATGAGGCCAGCGAGGCTGAGGGGGGCCGGGCTCTCACTCAGCCGTCCCCGTCTCCACACC
CTCCTCGGTGCAGTTCTTTCTCCAAGAGGATGACAGTGCTGACCGGAAGGCAGAGAGGACCAGTCCATCTTCCCC
TGCACCACTGCCCCACCAGGAGGCGACTCCTCGGGCCTCCAAAGGGGGCCAGGCTGGAACCCAGGTGGAGGAGGC
GGAGGCGGAGGCGGTGGCGGTGGCCAGTGGCACTGCAGGGGGTGACGACGGGGGTGCCTCGGGGCGCCCCCTGCC
CAAAGCCCAGCCTGGGCACCGCAGCTACAACCTTCAGGAGAGGAGGCGCATCGGGAGCATGACTGGGGCTGAGCA
GGCACTGCTGCCCCGGGTCCCCACGGATGAGATTGAGGCCCAGACGCTGGCCACGGCCGACCTAGACCTCATGAA
GAGTACCCGGTTTGAGGACGTTCTTGGGGTGCGGCGGCACCTTGGTGCGGAAGAAATGCCAAAGGTTCCACACAGAG
TGGCCGAGAAGGGCGGGAGCCTGGCCCCACACCTCGGGCCCCGACCCCGGGCCCCCACAAGCCCCATGAGGTGTT
TGTGGAGCTGAATGAGTTGCTCCTGGACAAAAACCAGGAGCCCCAGTGGCGGGAGACAGCTCGCTGGATCAAATT
TGAAGAGGACGTGGAGGAGGAGACTGAGCGCTGGGGGAAGCCCCACGTGGCCTCCCTCTCCTTCCGCACTCTCCT
GGAGCTCCGCAAGGACCTTGGCCCATGGGGCTGTGCTCTTGGATCTGGACCAGCAGACCCCTGCCCGGAGTGGCCCA
CCAGGTGGTGGAGCAGATGGTCATCTCTGACCAGATCAAGGCCGAGGACAGGGCCAACGTGCTGCGGGCTCTGCT
GTTGAAACACAGCCACCCAAGTGATGAGAAGGACTTCTCCTTCCCCCGCAACATCTCAGCTGGCTCCCTGGGCTC
CCTGCTGGGGCATCACCATGGTCAGGGGGCTGAGAGTGACCCCCACGTACCCGAGCCTCTCATGGGAGGTGTTCC
TGAGACCCGGCTGGAGGTGGAGCGAGAGCGTGAGCTGCCGCTCCAGCACCACCAGCTGGCATCACCCGCTCCAA
GTCCAAGCACGAGCTGAACTGCTGGAGAAGATTCTGAGAATGCCGAGGCCACGGTGGTCTTGTGGGCTGCGT
GGAGTCTCTCTCCGCCCCACCATGGCCTTTGTGCGGCTCCGGGAGGCTGTGGAGTTGGACGCAGTGTGGAGGT
GCCGCTGCTGTGCGTTTCTCTTCTGCTGCTGGGCCCCGAGTAGTGCCAACATGGACTACCACGAGATCGGCCG
CTCCATCTCCACCCTCATGTGACACAAGCAATTCCACGAGGCGCCTACCTGGCTGACGAGCGGGAGGACCTGCT
GACGGCCATCAACGCCTTCTTGGACTGCAGCGTGGTGCTGCCGCTTCAGAAGTGACAGGGCGAGGAGCTGCTGCG
CTCTGTGGCCCACTTCCAGCGCCAGATGCTCAAGAAGCGAGAGGAGCAGGGCCGGCTGCTACCTACAGGGGCTGG
GCTGGAGCCCAAATCTGCCAAGATAAGGCGCTCCTGCAGATGGTAGAGGCGGCAGGGGCAGCTGAAGATGATCC
CCTTCGGCGGACGGGGCGGCCCTTTGGGGGGCTGATCCGAGATGTGCGGCGCCGCTATCCCCACTACCTGAGTGA
CTTCCGAGATGCACTTGACCTCAGTGCTGGCCGAGTCATCTTCTATCTACTTTGCCGCCCTGTCTCCTGCCAT
CACCTTTGGGGGGCTGCTGGGAGAGAAGACGAGGACCTGATAGGGGTGTGGAGCTGATTATGTCCACA'GCGCT
CCAGGGCGTGGTCTTCTGCTGCTGGGTGCCAGCCCCCTGTTGGTGATCGGCTTCTCAGGGCCCCTGCTGGTCTT
TGAGGAGGCTTCTTCTCGTTCTGTAGCAGCAACCACCTGGAGTACCTGGTGGGCGGTGTGTGGATCGGCTTCTG
GCTGGTGTTCCTGGCCCTGCTCATGGTGGCCCTGGAGGGGAGCTTCTGGTCCGCTTCGTCTCCCGCTTCACCCA
GGAGATCTTCGCTTCTTGATCTCACTCATCTTATGAGACCTTCTACAAGCTGGTGAAGATCTTCCAGGA
GCACCCCTGCATGGCTGCTCAGCCTCCAACAGCTCAGAGGTGGACGGCGGTGAGAACATGACATGGGCCGGGGC
AAGACCCACGCTGGGGCCGGGCAACAGGAGCTTGGCTGGGCAGTCTGGGCAGGGGAAGCCCCGGGGCCAGCCCAA
CACGGCCCTGCTGTGCTGGTGTCTATGGCCGGCACCTTCTTCATCGCCTTCTTCTGCGCAAATTCAAGAACAG
CCGTTCTTCTTGGCCGATCCGGCGGGTGATTGGGGACTTTGGGGTGCCATCGCCATCCTCATATGGTGTCT
TGTGGATTACAGTATTGAGGACACCTATAACCAGAAGCTGAGCGTTCCAGTGGATTCTCGGTGACTGCCCCAGA
AAAGAGGGGCTGGGTATCAACCCCCCTGGGAGAGAAGAGCCCCCTCCCTGTGTGGATGATGGTTGCCAGCCTGCT
GCCCCCATCCTGGTCTTCACTTCTATCTTCACTGAGACACAGATCACCACGCTCATCATCTCCAAGAAGGAGCG
CATGCTGCAGAAGGGCTCCGGCTTCCACCTGGACCTGCTGCTCATCGTGGCCATGGGCGGCATCTGTGCCCTCTT
TGGCCTGCCCTGGTTGGCTGCTGCCACTGTCCGCTCTGTCACTCAGCCAACGCGCTCACTGTCTGAGCAAGGC
TGTGGCACCTGGGGACAAGCCCAAGATTCAAGGAAGTCAAGGAGCAGCGGGTGACGGGGCTGCTGGTTGCCCTGCT
TGTGGGCTCTCCATAGTTATCGGGGATCTGCTCCGGCAGATCCCCCTGGCCGTGCTCTTTGGAATTTCTCTGTA
CATGGGAGTACCTCCCTTAACGGGATCCAGTCTATGAGCGGCTGCATCTGCTGCTCATGCCGCCAAACACCA
CCCAGATGTCACTTACGTCAAGAAGTCCGGACCCCTCCGTATGCACCTGTTACGGCCCTGCAGTGTCTGCTCT

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FIGURE 2455B

GGCCCTGCTCTGGGCGTCATGTCCACAGCTGCCTCCCTGGCCTTCCCCTTCATCCTCATCCTCACAGTGCCGCT
CCGCATGGTGGTGCTCACCCGTATCTTCACCGACCGAGAGATGAAATGTCTGGATGCTAACGAGGCAGAGCCGGT
GTTTGATGAGCGGGAGGGTGTGGACGAGTACAATGAGATGCCCCATGCCTGTGTAGCCGCCACCGAGGGACAGCCG
AGGGACCGATGGACGAGGGGACAGGCTGGTGGGATGGGGTTCCCCCTCCCATGCCCCCTCCCTCCTTTTTATTAA
GTGAATAATTTAAAGTCTTCTCCTCCCCACTGCCCTGCAGTAAAGTGCTTTGGCCCCCA

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FIGURE 2456

GCGGCGGCGGGGAAGGAGGGGTGCTTCAGGTGCCTGCGACCTCCGCGCCTCCCGCCCGGAAGTGCCCGAGGGGCC
GCGATGGAGCTGGGGGAGCCGGGCGCTCGGTAGCGCGGCGGGCAAGGCAGGCGCCATGACCCTGATTGAAGGGGT
GGGTGATGAGGTGACCGTCCTTTTCTCGGTGCTTGCCCTGCTTCTGGTGCTGGCCCTTGCCCTGGGTCTCAACGCA
CACCGCTGAGGGCGGGGACCCACTGCCCCAGCCGTCAGGGACCCCAACGCCATCCCAGCCCAGCGCAGCCATGGC
AGCTACCGACAGCATGAGAGGGGAGGCCCCAGGGGCAGAGACCCCCAGCCTGAGACACAGAGGTCAAGCTGCACA
GCCAGAGCCCAGCACGGGGTTACAGCAACACCGCCAGCCCCGGACTCCCCGCAGGAGCCCCCTCGTGCTACGGCT
GAAATTCTCTCAATGATTGAGAGCAGGTGGCCAGGGCCTGGCCCCACGACACCATTGGCTCCTTGAAAAGGACCCA
GTTTCCCGGCGGGGAACAGCAGGTGCGACTCATCTACCAAGGGCAGCTGCTAGGCGACGACACCCAGACCCCTGGG
CAGCCTTACCTCCCTCCCAACTGCGTTCTCCACTGCCACGTGTCCACGAGAGTCGGTCCCCCAAATCCCCCTG
CCCGCCGGGGTCCGAGCCCGGCCCCCTCCGGGCTGGAAATCGGCAGCCTGCTGCTGCCCCTGCTGCTCCTGCTGTT
GCTGCTGCTCTGGTACTGCCAGATCCAGTACCGGCCCTTCTTTCCCTGACCGCCACTCTGGGCTGGCCGGCTT
CACCTGCTCCTCAGTCTCCTGGCCTTTGCCATGTACCGCCCGTAGTGCTCCGCGGGCGCTTGGCAGCGTCGCC
GGCCCCCTCCGACCTTGCTCCCCGCGCCGCGGCGGGAGCTGCTGCCTGCCAGGCCCCGCTCTCCGGCCTGCCTC
TTCCCGCCGCCCTGGAGCCCAGCCCTGCGCCGAGAGGACTCCCGGGACTGGCGGAGGCCCCGCCCTGCGACCGC
CGGGGCTCGGGGCCACCTCCCGGGGCTGCTGACCCTCAGCCCGCACTGGGAGTGGGCTCCTCGGGGTGGGCATC
TGCTGTCGCTGCCTCGCCCCGGGCAGAGCCGGGCGCCCCGGGGGCCGCTTAGTGTTCTGCCGAGGACCCA
GCCGCTCCAATCCCTGACAGCTCCTTGGGCTGAGTTGGGACGCCAGGTTCGGTGGGAGGCTGGTGAAGGGGAGC
GGGGAGGGGCAGAGGAGTTCCCCGGAACCCGTGCAGATTAAAGTAACTGTGAAGTTTTCAAAAAAAAAAAAAA

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FIGURE 2457

MTLIEGVGDEVTVLFSVLACLLVLALAWVSTHTAEGGDPLPQPSGTPTPSQPSAAMAATDSMRGEAPGAETPSLR
HRGQAAQPEPSTGFTATPPAPDSPQEPLVLRRLKFLNDSEQVARAWPHDTIGSLKRTQFPGREQQVRLIYQGQLLG
DDTQTLGSLHLPPNCVLHCHVSTRVGPPNPPCPPGSEPGPSGLEIGSLLLPLLLLLLLLLLWYCQIQYRPFPLTA
TLGLAGFTLLLSLLAFAMYRP

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FIGURE 2458

CCCAGCTCCCTGAAACAACAGTAACCTACCCCTGTGGGTCAATCATCATGCCCTCCGACCTGGCCAAGAAGAAGGC
AGCCAAAAAGAAGGAGGCTGCCAAAGCTCGACAGCGGCCAGAAAAGGACATGAAGAAAATGGAGATGTTGTAC
AGAACCACAGGTGGCAGAGAAGAATGAGGCCAATGGCAGAGAGACCACAGAAGTAGATTTGCTGACCAAGGAGCT
AGAGGACTTTGAGATGAAGAAAGCTGCTGCTCGAGCTGTCACTGGCGTCCTGGCCTCTCACCCCAACAGTACTGA
TGTTACATCATCAACCTCTCACTCACCTTTTCATGGTCAAGAGCTGCTCAGTGACACCAAACTGGAATTAACTC
AGGCCGTCGTTATGGCCTCATTGGTTTAAATGGAATTGGAAAGTCCATGCTGCTCTCTGCTATTGGGAAGCGTGA
AGTGCCCATCCCTGAGCACATCGACATCTACCATCTGACTCGAGAGATGCCCCCTAGTGACAAGACACCCCTTGCA
TTGTGTGATGGAAGTCGACACAGAGCGGGCCATGCTGGAGAAAGAGGCAGAGCGGCTGGCTCATGAGGATGCGGA
GTGTGAGAAGCTCATGGAGCTCTACGAGCGCCTGGAGGAGCTGGATGCCGACAAGGCAGAGATGAGGGCCTCGCG
GATCTTGCACTGGACTGGGTTTCACACCTGCCATGCGAGCGCAAGAAGCTAAAAGACTTCAGTGGGGGCTGGAGGAT
GAGGGTTGCCCTTGCCAGAGCCCTCTTTATTTCGGCCCTTCATGCTGCTCCTGGATGAGCCTACCAACCACCTGGA
CCTAGATGCTTGCGTGTGGTTGGAAGAAGAACTAAAAACTTTTAAGCGCATCTTGGTCCTCGTCTCCCATTTCCA
GGATTTTCTGAATGGTGTCTGTACCAATATCATTTCACATGCACAACAAGAACTGAAGTATTATACGGGTAAATTA
TGATCAGTATGTGAAGACGCGGCTAGAGCTGGAGGAGAACCAGATGAAGAGGTTTCACTGGGAGCAAGATCAGAT
TGCACACATGAAGAACTACATTGCGAGGTTTGGTCATGGCAGTGCCAAGCTGGCCCGGAGGCCCAGAGCAAGGA
GAAGACGCTACAGAAAATGATGGCATCAGGACTGACAGAGAGGGTCGTGAGCGATAAGACACTGTCATTTTATTT
CCCACCATGTGGCAAGATCCCTCCACCTGTCATTATGGTGCAAAATGTGAGCTTCAAGTATACAAAAGATGGGGC
TTGCATCTACAATAATCTAGAATTGGAATTGACCTTGACACACGAGTGGCTCTGGTAGGGCCCAATGGAGCAGG
GAAGTCAACTCTTCTGAAGCTGCTAACTGGAGAGCTACTACCCACAGATGGCATGATCCGAAAACACTCTCATGT
CAAGATAGGGCGTTACCATCAGCATTTACAAGAGCAGCTGGACTTAGATCTCTCACCTTTGGAGTACATGATGAA
GTGCTACCCAGAGATCAAGGAGAAGGAAGAAATGAGGAAGATCATTTGGGCGATACGGTCTCACTGGGAAACAACA
GGTGAGCCCAATCCGGAACCTGTGACAGCGGCAGAAAGTGCCGAGTGTGTCTGGCCTGGCTGGCCTGGCAGAACCC
CCACATGCTCTTCCTGGATGAACCCACCAATCACCTGGATATCGAGACCATCGACGCCCTGGCAGATGCCATCAA
TGAGTTTGAGGGTGGTATGATGCTGGTCAGCCATGACTTCAGACTCATTTCAGCAGGTTGCACAGGAAATTTGGGT
CTGTGAGAAGCAGACAATCACCAAGTGGCCTGGAGACATCCTGGCTTACAAGGAGCACCTCAAGTCCAAGCTGGT
GGATGAGGAGCCCCAGCTCACCAAGAGGACCCACAACGTGTGCACCCTGACATTGGCATCTCTGCCAAGGCCATG
AGCATCATGAACTCGTTTGTAACGACGTGTTTGAGCAGCTGGCGTGTGAGGCTGCCCGGCTGGCCAGTACTCG
GGCCGGACCACCCTGACATCCCGAGAAGTCCAGACGGCTGTGCGTCTGCTGCTGCCTGGGGAGCTGGCCAAGCAC
GCTGTGCTTGAGGGCACCAAGGCTGTCACCAAGTACACCAGCTCCAAGTGACCCAGGGCCTGACAAAAATAAAGG
GTGAACTGTTAAAAA

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FIGURE 2459

MPSDLAKKKAACKKEAAKARQRPRKGHEENGDVVTEPQVAEKNEANGRETTEVDLLTKELEDFEMKKAARAVTG
VLASHPNSTDVHIINLSLTFHGQELLSDTKLELNSGRRYGLIGLNGIGKSMLLSAIGKREVPPIPEHIDIYHLTRE
MPPSDKTPLHCVMEVDTERAMLEKEAERLAHEDAECEKLMELYERLEELDADKAEMRASRILHGLGFTPAMQRKK
LKDFSGGWRMRVALARALFIRPFMLLLDEPTNHLDDLACVWLEELKTFKRILVLVSHSQDFLNGVCTNIIHMHN
KKLKYYTGNYDQYVKTRLELEENQMKRFHWEQDQIAHMKNYIARFGHGSAKLARQAQSKEKTLOKMMASGLTERV
VSDKTLSFYFPPCGKIPPPVIMVQNVSFKYTKDGPCIYNNLEFGIDLDTVALVGPNGAGKSTLLKLLTGELLPT
DGMIRKHSVHKIGRYHQHLQEQLDDLSPLEYMMKCYPEIKEKEEMRKIIIGRYGLTGKQQVSPIRNLSDGQKCRV
CLAWLAWQNPMLFLDEPTNHLDIETIDALADAINFEFGMMLVSHDFRLIQQVAQEIWVCEKQTITKWPGDILA
YKEHLKSKLVDEEPQLTKRTHNVCTLTLASLPRP

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FIGURE 2460

GCCTAATTAAAAGGCGGCGGAAGAAGGTGGGAGGGTCATGACGCAGCGAGTTTCAGTCGTGACTTTTCTGGGGGC
ATCGCGGCGTCCCCTTTTTTTTGCCTTTTAAAGTAAAACGTCGCCCCGACGCACCCCCCGCGTATTTCCGGGGGGCG
GAGGCGGCGGGCCACGGCGCGAAGAGGGGCGGTGCTGACGCCGGCCGGTCACGTGGGCGTGTTGTGGGGGGGAGG
GGCGCCGCCGCGCGGTTCGGTTCCGGGCGGTGGGAGCGCGCGAGCTAGCGAGCGAGAGGCAGCCGCGCCCGCCGC
CGCCCCTGCTCTGTATGCCGCTCTCTCCCGCGCGGGCCGCCGCCGATCACAGCAGCAGGAGCCACCGCCGCCGCG
GTTGATGTGGTTGGGCGGGGCTGAGGAGGCCGCCAAGATGCGCAGTCCAAGTCCCGGAAGATCGCGATCCTGG
GCTACCGGTCTGTGGGGAAATCCTCATTGACGATTCAATTTGTTGAAGGCCAATTTGTGGACTCCTACGATCCAA
CCATAGAAAACACTTTTACAAAGTTGATCACAGTAAATGGACAAGAATATCATCTTCAACTTGTAGACACAGCCG
GGCAAGATGAATATTCTATCTTTCCTCAGACATACTCCATAGATATTAATGGCTATATTCTTGTGTATTCTGTTA
CATCAATCAAAAGTTTTGAAGTGATTAAAGTTATCCATGGCAAATTGTTGGATATGGTGGGGAAAGTACAAATAC
CTATTATGTTGGTTGGGAATAAGAAAGACCTGCATATGGAAAGGGTGATCAGTTATGAAGAAGGGAAAGCTTTGG
CAGAATCTTGGAATGCAGCTTTTTTGGAACTTCTGCTAAAGAAAATCAGACTGCTGTGGATGTTTTTCGAAGGA
TAATTTTGGAGGCAGAAAAATGGACGGGGCAGCTTCACAAGGCAAGTCTTCATGCTCGGTGATGTGATTCTGCT
GCAAAGCCTGAGGACACTGGGAATATATTCTACCTGAAGAAGCAAAGTCCCGTTCTCCTTGAAGATAAACTATG
CTTCTTTTTTCTTCTGTAACTGAAAGATATCATTTGGGTCAGAGCTCCCCCTCCCTTCAGATTATGTTAACTCT
GAGTCTGTCCAAATGAGTTCACCTCCATTTTCAAATTTTAAGCAATCATATTTCAATTTATATATTGTATTCT
TAATATTATGACCAAGAATTTTATCGGCATTAATTTTTCAGTGTAGTTTGTGTTTAAATAATGTAATCATCAA
AATGATGCATATTGTTACACTACTATTAAGGCTTCAGTATATCAGTGTTTATTTTCATTGTGTTAAATGTATA
CTTGTAATAAAATAGCTGCAACCTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2461

MPQSKSRKIAILGYRSVGKSSLTIQFVEGQFVDSYDPTIENTFTKLITVNGQEYHLQLVDTAGQDEYSIFPQTYS
IDINGYILVYSVTSIKSFEVIKVIHGKLLDMVGKVQIPIMLVGNKKDLHMERVISYEEGKALAESWNAAFLESSA
KENQTAVDVFRRIILEAEKMDGAASQGKSSCSVM

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FIGURE 2462A

GATTTACTTGGAGAAGATTGCTATCTGGCAAAAAGAATCAGTCGGATTGTGTCAGATGAAGAGCTAAATGATGAT
CTTTTGCAGAGTGATAATGAAGATGAAGAAAATTTTCAGTTCTCAGGGTGTTACAATTAGTCTGAATGCTACATCT
GGCATGGTTACATCATTGAACTCTCTGACAACTAACGACCAATCTGGAGAACAGGAATCTGAGTATGAACAA
GAACAAGGAGAGGATGAACTGGTTTATCACAATCTGATGGATCAGAATTGTATACTCAAGAGTACCCAGAAGAA
GGACAGTATGAAGGCCACGAAGCTGAGTTGACAGAAGACCAATAGAATATGTGGAAGAGCCAGAGGAGGAGCAG
CTTTACACTGATGAAGTGTAGACATCGAGATCAATGAACCTTTAGATGAATTTACAGGAGGTATGGAAACATTG
GAACTTCAAAAGGACATCAAAGAAGAATCAGATGAAGAAGAAGAAGATGATGAAGAATCTGGACGATTACGTTTC
AAAAGTGAAGGAAAGAAGGAACAATTATTAGGCTCTCAGATGTAACTAGAGAGAGAAGGAACATTCCAGAACT
TTGGAGCTTTTCAGCAGAGGCCAAGGCAGCATTGCTTGAATTTGAAGAAAGGGAGCGACAGCATAAACAAGGACGC
TACAGCTCCAGGCGGGGAGGACGCGCAGGAGGTCCGCTGATGTGTCGTGGTGTGGGGGACCAGAGGAGAGAGAGC
ACCGAGAGGGGACAGGATGAAGGACCACAGACCTGCGCTGCTTCTACACAGCCTCCTGTGCTGATACTTCCAGAG
GAGGAATTAATGAGCGACCTGATGCCCTAAGATGACATAAGCTGTTGGACCTTGCTACCTAAAGCCTCTAGAGAG
CCCCAGGCTCCCCCTCCACCGCTCCGCGCCTCAGCAGCAGCCGATCAGAAGCCTGTTCCAGCCGACGCGCTG
CAGCCGCTGCTTCCGGTGACGACCCGACCCCATCCCCGCTCAGGGAATGCACATGCCTCCCCAGCTAGAG
ACCCCAAGGATGATGATGACCCCGCCACCCGTGACTCCACAGCAGCCCAAGAACATACACATCAACCCGCACTTC
AAAGGGACGGTGGTCACGCCTGTTCAAGTGCCCTTGCTACCAGTTCGAGCCAGCCGAGACCTGCCGTGGGACCC
CAGAGATTTCCAGGCCCTCCAGAATTTCCAAGCAGATACACCTGGACCTGTTCCCAACAGTTTCAGCCAGCCCCCA
CGACTCCCTCTCCAGGACCACTGGAGAGCCCCACCCCGCCTCAGGATCGAGACCTTTCTTCTTAGGAGTTTCA
GGTGAACCAAGATTTCCGAGCCATCTTTTTCTGGAACAGCGAAGTCCCCCTCCACCACCACCGCCTCCTACCCTT
CTTAACAGTAGCCATCCTGTTCTTACTCAGAGTCTCTACCATTCACTCAGCCAGGACCAGCATTTAATCAGCAA
GGACAGCAGCCAGTGTTCCTAAGAGAGCGGCCGTACGACCAGCCTTGACGCTCCAGGTCCGGTGGGGATTCTG
CACTTTAGCCAGCCTGGGTCCGCAACCACACGCGCCCTTCATTCTCTTAGACAGCCGTTCTGCCAGGCCACGGA
CAGCCGTTTCTGCCCACACACACAGCCCAACCTGCAGGTAATGCATCCTGAGTGAACCTCCAGGGAAGAAATG
TGTAAGTTCAAGGCTTTGTGTTCCATAAAGTTTTCAGATTTTTATTGAGCCTACTAATTTGTGGTTATTTAAAGA
ATAGAGTATTAGTCTCAAAATGTACTGTTTGTAAAGACAACTTTTTCAACAATGTTACTTATCTCAATACAAGA
AAAAAATGGGAAAATGTCATTTTTTGGGAATTGAAAAATGCTACTTATTATAATTGTTTAAAGGTATACTACTA
ATAAAATTAGGACATGTTTGTATAATACATTGCTCATCTGTATAAAATTTTCATGAGAGGTTTACCAGTGGAAT
ACTTGTCAAATTATATCTGTCAGTAGACAGTTTGAAGAGAGTCTTGCATGAGGGAAGAAGATGTTGCTGT
TCACTGGTTATTTGAAGGCCTTGAGTGCCCTCTGCCGACCGGCTTCTGCTTCATGGGTTTTCTAGGTTATTTGA
AGGCCTTGAGTGCCCTCTGCCCATCGGCTTCTGCTTCATGGGTGACATGCGTCTGTAACATCTTTCTTACCAAG
TGTAATTTCTTCTTGTAATTGTAGGGTTACTATTAATAACATAGCGATGGTAACTTGAATCAACTATTTAAAA
ATACGTGGAATACGTATCTAAGCCAAAAACGGAAAATGAATATTATCTAGGGTGTAAAGGAAGATAAAATGTTT
TTAAGAATTTTTCTTTTTATTAAAAAAATGCAATTAATACATCCCCATTGCAGAAATTTTCAAGTATATATAAGA
AAGGAAATTAATACTCTCGTTACCTAGAAACAATTCAGGAGCTTTTTTTTTTTTGTCTTTTTTAAATGCACATCT
TCTCGCCACCTGCTTTTTCCCTCCAGTGTACATATCATTGATCTTTTCATGTCAGCGAGTTGGTTTTTGATGCC
ATCGTTTGAGAGTGCTGTATGCGGTTCCCTTTTCATGCTGTCTGTGTGGTTGCATGTGTGTATAGTGGTTTCAGTA
CTTAGTATCATAGTGCTACAGGGAACATGCTTTAGAGTTATGAGTTTGTCTGCATACCTAGTTTTCTTAGGAC
AATTCAATCCTAGAATTACTGGATTAAATATAAAATTTAAGGTAATAGCTTCTGGCTTATTACTGCATTTTAGAT
AGTATTACCTTCATCAGCAAGTCTAAAAATGAAGTTTTGGTATCGCTGAAAGTTCCCTTCTTGTGTGAGGTTTTT
TAGGAAATGATTGAAGTGATTATGCCCGGTGTAACCAATTATGAAGTGTGTTCTCTTTCTTTGAAATGGAAG
GGGCCGTTGCATCTCCATTGCCCTCCGCTCAGCCTCAGCCTCAGCAACCTCAGCAACAGCCCCCGCCACAG
CACCAGCCTCCGCACCAGCCCCCGCACCAGCCCCCGCCACAGCACCAGCCCCACCCACAGCAC
CCGCCGACGACCAGCACCACCACCACCACCACCTGTCCGTCCCGCCCCCTCCTTTGATGCCGATGTCTCAG
CCACAGTTCGGGCTCAGTACAGACCGCTCAGCCTCAGGCCAGCAGCAGCCGATGCAAGTCCCCCAGCGCCAG
GGGCTCCGGCATAATACAACCTTCTCAGAATGTAAGCAAGCGGCCCATGCAGCAAATGCAGCCCACTGCGCCAAGG
AACAGCAATTTGCGTGAATTACCCATAGCGCGCTCACACGTGATAGAAATGAGCAGCAGCCGCTGCTCTGCCACG
CCCTCAGCACAAAGTGAACCTATCGTCAGCGCGTACCACCTCGCGGGCGGTGGCGGGTTCCAGAAGCTCACAG
GGAAAGACGGAAGTGAAGTCAAGCCAGCTAGCCCTGTGGCTCAACCTAAAGAAGAGGCAAAAACAGAAACAGAG

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FIGURE 2462B

TTTCCTGATGAAGATGAGGAAACAAGGTTATATCGCTTAAAGATAGAAGAACAGAAACGCCTAAGAGAAGAAATC
CTGAAACAGAAGGAGTTACGGCGGCAGCAGCAGGCTGGTGCCAGGAAGAAGGAGCTGCTGGAGAGACTCGCGCAG
CAACAGCAGCAGCTGTACGCTCCCCACCCCCAGCAGAGCAGGAAGAGCAGGCACTGTCACCATCACCCACCAAC
GGTAACCCACTGTGCCCCTTTCCAGGTGCACAGGTCAGACAAAATGTGAAGAACAGACTTCTTGTTAAAAACCAG
GATGTCAGTATTTCAAACGTTTCAGCCCAAAACATCCAATTTTGTACCATCCAGTGCCAACATGCAGTATCAAGGA
CAACAGATGAAAGCACTGAAACATTTGAGACAGACCAGAACAGTTCCTCAAAGTCAGACTCAGCCGCTGCATAAA
GTGCTCCCGATCAAACCTGCAGATGTGGAGGAGCCAGCTGTCCCCCAGACTCCTCGAGTGGCGTCCATCCAGGGC
CGGCCCCAGGACACAAAGCCTGGCGTGAAAAGGACTGTCACGCACAGGACAAACAGTGGTGGTGGAGACGGGCCC
CACATCAGCTCCAAGGTCAGGGTGATTAAGCTGTCAGGTGGGGTAAGTTGACAAGTTTTATGAGAGCCTCTTTGA
GTCTGTGTATCACATAGAATGTCCTCATTTCAGAGAATGTTTTTGAAGAAAGAATTAAAAGTTACCTCTGTTAT
AGTCTTGTAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2463

MIEVIMPGVTIYELLFLFLWKWKGPLHPPPLPPPHQPQPQQPQQPFPQHQPPHQPPHQPFPQHQPFPQHPPQHPP
QHQHSHHHHHLSVPPPLMPMSQPQFRPHVQTAQPQASSSRMQCFQROGLRHNTTSQNVSKRPMQQMQPTAPRNS
NLRELPIAPSHVIEMSSSRCSATPSAQVKPIVSASPPSRVAGSRSSQGKTEVKVKFASPVAQPKEEAKTETETFP
DEDEETRLYRLKIEEQKRLREEILKQKELRRQQQAGARKKELLERLAQQQQQLYAPPPFAEQEEQALSPSPTNGN
PLLPFPGAQVRQNVKNRLLVKNQDVSI SNVQPKTSNFVPSSANMQYQGQOMKALKHLRQTRTPQSQTQPLHKVL
PIKPADVEEPAVPQTPRVASIQGRPQDTKPGVKRTVTHRTNSGGGDGPHISSKVRVIKLSGGVS

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FIGURE 2464

GCCGGTGTCTGGTTCGCGGTACCTGTTCCAACACGGCTCGCGGGCCCGTGCCGGCTCCGGTCCCCGGCGCGGCTG
TCCGAGCCCCTGCGGCGGGCGGACGATGGTGTGGCGGAGCACGCGGACGCGGGCGGGCGGGCGGGCATGAAG
GAGGATGGAAGGGCAGGACGAGGTGTGCGCGCGGGAGCAGCACTTCCACAGCCAAGTGCGGGAGTCCACGATATG
TTTCCTTCTTTTTGCCATTCTCTACGTTGTTTCTACTTCATCATCACAAAGATACAAGAGAAAATCAGATGAACA
AGAAGATGAAGATGCCATCGTCAACAGGATTTCGTTGTTTTTGAGCACGTTCACTCTCGCAGTGTCAGCTGGGGC
TGTTTTGCTTTTACCCTTCTCAATCATCAGCAATGAAATCCTGCTTTCTTTTCTCAGAACTACTATATTTCAGTG
GCTAAATGGCTCCCTGATTCATGGTTTTGTGGAATCTTGCTTCCCTTTTTTCCAACCTTTGTTTTATTGTATTGAT
GCCCTTTGCTTTTTCTTTCTGGAATCAGAAGGCTTTGCTGGCCTGAAAAAGGGAATCCGAGCCCGCATTTTAGA
GACTTTGGTTCATGCTTCTTCTTCTTGCGTTACTCATTCTTGGGATAGTGTGGGTAGCTTCAGCACTCATTGACAA
CGATGCCGCAAGCATGGAATCTTTATATGATCTCTGGGAGTTCTATCTACCCATTTTATATTCTGTATATCATT
GATGGGATGTTTTGTTACTTCTTCTTGTGTACACCAGTTGGCTTTCTCGTATGTTACAGTGATGGGTGAGTTGCT
AGTGAAGCCAACAATTCTTGAAGACCTGGATGAACAAATTTATATCATTACCTTAGAGGAAGAAGCACTCCAGAG
ACGACTAAATGGGCTGTCTTCATCGGTGGAATACAACATAATGGAGTTGGAACAAGAAGCTTGAAGATGTAAAGAC
TCTTAAGACAAAATTAGAGAGGCGAAAAAGGCTTCAGCATGGGAAAGAAATTTGGTGTATCCCGCTGTTATGGT
TCTCCTTCTTATTGAGACATCCATCTCGGTCTCTTGGTGGCTTGTAATATTCTTTGCCTATTGGTTGATGAAAC
AGCAATGCCAAAAGGAACAAGGGGGCTTGAATAGGAAATGCCTCTCTTTCTACGTTTGGTTTTGTGGGAGCTGC
GCTTGAAATCATTTTGATTTTCTATCTTATGGTGTCTCTGTTGTGCGCTTCTATAGCCTTCGATTTTTTGAAA
CTTTACTCCCAAGAAAGATGACACAACATGACAAAGATCATTGGAAATTGTGTGTCATCTTGGTTTTGAGCTC
TGCTCTGCCTGTGATGTCGAGAACACTGGGAATCACTAGATTGATCTACTTGGCGACTTTGGAAGGTTAATTG
GCTGGGAAATTTCTATATTGTATTATCTACAATTTGCTTTTTGCTATTGTGACAACATTGTGTCTGGTCCGAAA
ATTACCTCTGCAGTTTCGAGAAGAACTTTCAAGGCCCTAGGGCTTCATAAACTTCACTTACCAAATACTTCAAG
GGATTGAGAAACAGCCAAGCCTTCTGTAAATGGGCATCAGAAAGCACTGTGAGACGCACAGACGGCGTCTTCTGC
CACCAGAGACCCGAGAACTCCAGATTCACGACATTCCGTGCCATGTAGAAGCATTTCATTCAACCGTGGCCC
CTCTTCAGAACCTAGACCTATCAGTGCCATTTTTTTTTTCTAATCTACGAAGAACTTGGCTATGGCTGATCTTTT
TTAAATTTAACTTTCTGATGGACCCTGTAGTTTCCAGTTAAGTGCAGATTCCCTACAGACATATAGAACAGCGCA
TTCTTCTGTAGACATTTGCTCATGTTGGTAAATACAATCACCATATGAAAAATGTTTTACCTGATATGAAA
ATGTTAGAAAAGGCAAACTCCGGGACTTCTAAAGATTTACTTAAATCCCATTATGTACTTTATTCAGAAATGTAGA
AGCTGACTTGAAAGGCATCCTTGGTACTAAGTGAAGCTTATTCAGAAAATGCATTTTCAAATGCAATGGCAACT
GCTTGATGATATCATTTTTGTCAGTGATGTTGGAGCTGTAATGGTTGCAATTATGTTTCTTATTTCTTAAAGC
AAAAAGCGTAGTTTCTGATTTATGTTATAGAATGATACTGATTAGACTTTGAGCCAAGGGGAAAACTAAATTC
TTTTAAACCTGGAGCCTTAGAGAGCCACAGGAATATCTTCTGTTGTACAGTCTAATAAGCTGTGGTAGGAAGTAT
CATGTAATCACAGTTTAAATGACAGTTTATGTATATATAAATTCAGTATTCCTCTGATAACATAGTTGCCAGTG
TTTAATACACTTGTAACCTGGATTTTTACCTTATAGGCTATATGTATACTCAGTTTTTTAAAGCATTTTTTTCAG
AGATCACTTAATCCCCATGCTTCTGCAATGCATATAAAAACTATAAATGCCGAGTGGTAGAAATCCTCTTTCT
TCATAGTCTCAGGCTTTGGTTACATTTGCATATGCCATTTGAAGCCTCCAGCTTTTACCAGTTTAAACATCCAAA
GTTTCACAGCATCAGCATTGAGGTGTAAGAACAGTTTTGCAGTATAACACGATCTGATAATCATTGATTATTAA
ATTGTAATAAATTATTGGGATGGTTTTCTTGGCTTTAAGTCCACTGAATAAAAACTATGAAATTGCAAAAAAAA
AAAAAA

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FIGURE 2465

MEGQDEVSAREQHFHSQVRESTICFLLFAILYVVSFYIITRYKRKSDEQEDEDIVNRISLFLSTFTLAVSAGAV
LLLPSIISNEILLSFPQNYIIQWLNGSLIHGLWNLASLFSNLCLFVLMPPAFFFFLESEGFAGLKKGIRARILET
LVMLLLLALLILGIVWVASALIDNDAASMESLYDLWEFYLPYLYSCISLMGCLLLLCTPVGLSRMFTVMGQLLV
KPTILEDLDEQIYIITLEEEALQRRNLGLSSSVVEYNIMELEQELENVKTCLKLERRKKASAWERNLVYPAMVL
LLIETSIISVLLVACNILCLLVDETAMPKGTRGPGIGNASLSTFGFVGAALEIILIFYLMVSSVVGFYSLRFFGNF
TPKKDDTTMTKIIGNCVSILVLSSALPVMSRTLGITRFDLLGDFGRFNWLGNFYIVLSYNLLFAIVTTLCIVRK
TSVREELFKALGLHLKHLPLNTSRDSETAKPSVNGHQKAL

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FIGURE 2466

TCTTTCGTAACCGTAGCTTGAGGCACATTTCTAAATATGCAGCATGGAACGCTTGGCGGTTCTGAACGCGCAT
CTCGTGCTGCTCCTGTAGGGCGGTTAGGACGCGCTCCTCTGGCGAGGAAGGTGGCAGCCTCCACTGTGCACGGGT
CACAGCGGAGTGTGGTGTGGTGTGGTGTGGGTGGGGTGTGGACTGGATCTGCAGGCTTGTCCTCTCTCGTGGA
GAGCTGTGCGGGTCCAGGCAGTGCTCAGTGGTGAGAGCCACAGCACATTTGAAAGTCCACATGTGTTGCCCCAC
TGTGGTCCAGGACATGTGTGAGCCACACTCAGTGGACTTGACCTGTGACATGTTGGTCAGCGTGGCGGGCCGTCA
GCTGGGTGTGGAATGCATCTGATTGGAGCCTGGCACC CGCCTACCATGATTGTGATTCTCTGGGGCGAGTCCCTG
AGTGTGGGCAGGGCCTCAGGCCCCCAAGAGGGCTGTGAGCAGGCACCTTCTGTGAGGCACGATGCCACCATGTG
AAGTTGTGTGGGTCTTTGGAGAGTTCTGGCAGGTTGAGGGCCTGTGCGTGTGGGACCCAGGCTGCCCTGCCTGC
TGCCGGCCATGTTCCCTCTGCCCAGTCATGTTGACAATTGTGGCCAAATTCAACATCGGGCCTGTTTCTGACCC
CACGTTGGCACACACTGAGTTCAAGACAGTTTCTGCAGAAATGAATCCAGAGGTGTTTATTCTGGCACGTTGGA
TCAGACGTTTCAGAGGGTGGGCGTCTTTCTCCATGCACCTCAGCTGGATCAGTCAGTGTGAGCCATTGACTTTAGC
AACAGGGAAATGAAAGACTTTCTCAATAAGAAATGGGACTTTCTCACGCTGGATGGCACAGAGCTGGCAAACAT
GAGGCCAGTCCACACCAAGGCTTTGCCTGCAGAAAGGCTGCACTGTGGCCAGCGGGGAAGCGGAGGAGACACCT
GTGGACACCTCCCCACAGGTGGGCACACCTTTGCGCAGGCCAGTGTGCGTTCTGAAGGAGAGCCCAGGGTGGG
GTTCCGGGACTGAGGTGCAGCCGTGTCCAGGGTGGGCTTCTAGCTCTGCCGCTGGGCGGAAGTGGGGTAGGTCCC
AGGGTGGGGTTCAGGACTGAGGTGCAGCCGTGCCAGGGTGGGCTTCTAGCTCTGCCGCTGGGCGGAAGTGGGG
TAGTCCAGGGTGGGCTTTTAGCTCTGCCGCTGGGCGGAAGTCGGGTAGGTGGGAGTCCCTCACTTCTCTGCAGGG
TGGTGAAGCTCTCTGGGTAGTGTGAGCAGTTCTCAACGTGCACCTTGAAAGCGCCCGTTTGTAGGTTTAGCTGT
GGCCAAAGATAGATGACTTCATTTTGTGCTTTTGTCTTAAACATGGGGAGATATTTAGAAAACATGTTTGCTC
TTGCTGGGGAAGCAGTGTGTTCCGTACAGTGTTTTACAAGCCGTGTTTCTTAGGATTGAAAGAAGGTGGCAAG
AGGAAGAAGCAGAAGCAGAGAGAGGAGTCGAAGAAGAAGAAGTCGACCAAAGGCAATCACTAGACCGGACTTGAG
GCACGCGGTGCACCCCCAGACGCTGGCGCTCCACCGTGTCTCGGCATGCGGTCTGTGCACACGCGCTAGGTAGCAGC
GTCCGTGAGGACTGTCTCGAGGCCACACTCGCTCGGCAGGATTATGCGATCACGGATCAGTCAGAGCAGGGTCAG
GAGACGGGGCTGACGGCACGGGTGGCGGGGACAGACGTTTGGGACTTGGCCGCGACTCTCTGCTTCTCTCCAGCT
CTCAATCTGCTGCATTTTCTCTAGTGCTTCCGGATCCTCTTCATTCTTTTCGGCTACTCAACCCTCCGCATGC
TGCTGGAATATTTCTGGCTTTAGAAGTACAGGAGGGCGCAGATGGCTAACTGAGTAACATTTCATGAAATGAGGCT
TTCTGTGGCGGCGTAGTGTGTTGGAATTAGAAGGTAATTCAGTAGAGTGTAACCTTAGAGAATATTGCAAGTGACAC
ATTGAATCCTGCCCGTCAGGGCACCTTTTCTCAGAGCAATCCGGCCACACGAATAGAAGGCTGTCTGTAATCAC
ATCAGATGTAAATCATTCCTTCTGTTTACTCTTTAATTTTCATCCTTTGCAGGTAGTGCAAATTCAACTTCAA
ATATGGGTAGGTTTGTCTAGATTCCATATTTTTTCTTGGATTTTGTCTAATTATTTTAGCAAAAAATTTTGTG
CTCAGTGGCACTCTCCCTAGTGTCCATGGGTTAGGGCCATGCTGGGGAAAACGGGCCGATTTTACACACGCGCA
AAACACCCAGAGACGGCACAGGAGGTTGAACTCATGTTTTCAGTTCGCGAACATTGACTCCTTACGAAAGTCACT
TCATTCTAACTAGATGCGCCCACTTCCGGTCATTATTTCTGTTTGCATGATGTATTGCTTCTTCACGTTTGTGTTT
TATTGAGCACGGAGTAGAATTCAGGGCTGCCCTTGACTTCTTCCCTGCATGCTCCCTCCAGTGACTTTCCTTCC
CTTTCACATGAGGATCTGCCGTTTCATGTTGCTTCTCCTTTGTCTTGGACTTGAGGGCATTGTGAAAAGCTT
TGCTGTGATTTAAAAATGCCAGCAATTTAATCTAGCAGTGTGAAAGCTGGGAATTTTGGCGCAATCCATGTA
GCAGTGACCCAGGCTTGGGAGCCAGAAACAAGTGTGACCTGGGATTTTATTTAACACAAGTGTGTTGCCAAAGAGTT
GGCTTTGTTTATTTGGTTTTGGCGGGGAGAGGAGTGGTATTTGATGCTTCTGTGGACAATGTAACCCTAAACAC
ATCATGTATTTTAAATGCCACCTACATAAATAAAACATAAGCATATTGAATAC

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FIGURE 2467

CTAAGACAGGTGCAGACGTATGTCGGCTTTGGCGTATCCATCAAGCTTTATATTGCTTTGATTATGATTTGGAGG
AAAGTGGAGAAATTAAGATATGTTACTTGAGTGCTTCATAAATATTAATTATATCAAGAAAGAAGAGGGAAGAA
GATTTCTTAGTTGTCTCTTCAACTGGAATATCAACTTCATCAAAATGATCCACGGGACCATTAAAAACCAGTTAC
AGGGATTACAAAAGTCTTTGATGGTATACATTGCAGAAATTTATTTCAGAGCTTGAAAAAGGCTTCAGGGAAAA
TACTGGAGGCGATTGAAAATGATTGCATCCAGGACTTCATGTTTCACGGGATACACCTTCCGAGGAGGTCTCCAG
TGCATTCCAAAGTGCAGGAGGTCTGAGTTACTTTCACCATCAAAAGAAAGTTCGGCAGGGAGTGGAAGAGATGC
TTTATAGATTATATAAGCCCATCCTTTGGAGAGGATTAAAGGCCAGAACTCTGAAGTTTCGATCAAAATGCTGCAT
TGTTGTTTGTGAAGCATTTCCTATTAGGGATCCAAACCTTCATGCTATTGAAATGGATAGTGAAATCCAGAAAC
AGTTTGAAGAGCTCTATAGCCTTTTAGAAGATCCTTACCCGATGGTCCGTTCCACAGGGATCCTTGGTGTGTTGTA
AAATAACTTCTAAGTACTGGGAAATGATGCCCCGACCATTCTTATTGACCTCCTGAAGAAGGTGACTGGGGAAC
TGGCATTGACACGAGCTCAGCTGATGTTCTGTTGTCTGTCTTTAAGTGTCTGCCAATGATTTTGGACAACAAAC
TGAGCCACCCATTGTTAGAGCAGCTCCTTCCAGCTCTCAGATACAGTCTCCACGACAATTCGGAGAAAGTGAGGG
TAGCTTTTGTGGACATGCTGTTGAAGATCAAAGCTGTGAGGGCTGCTAAGTTTTGGAAAAATATGTCCCATGGAGC
ACATTCTGGTTCTGTCTGGAACCTGATTCTCGACCTGTGTCTCGGCGCCTGGTGAGCCTCATCTTTAATTCTTTCC
TGCCTGTGAATCAGCCGGAGGAGGTCTGGTGCAGCGCTGTGTACCCCTGGTGCAGATGAACCACGCCGCTGCCA
GGAGGTTCTATCAGTACGCCCACGAACACACCGCCTGCACCAACATAGCAAAGCTGATTACAGTTATTCGTCATT
GCTTAAATGCCTGTATCCAGAGGGCAGTGAGAGAGCCTCCAGAGGACGAGGAGGAAGAGGACGGAAGGGAGAAGG
AGAATGTGACTGTTCTGGACAAAACACTGTCAAGTAAACGATGTTGCATGCATGGCAGGTTTACTAGAAATCATTG
TGATTCTCTGAAAAAGTATTGACAGAAGTATGAAAAATAATAAGAGGCCAACTTTACACGATTAACAAGTTTG
CCTCTGTGCTTCCAGAGTATCTGAAAGTATTTAAGGATGATCGCTGCAAGATCCCTTTATTTCATGCTAATGTCTT
TTATGCCGGCCTCTGTCTGTCCCCCATTACAGCTGTGGTGTGATTTCACGCTGAGAAGCCGGGAGGAGGGCGCTG
TGGACAAGAGCTACTGCACCTTTGTTGGATTGCCTCTGTCTCTGGGGCAAGTGGGGCACATTCTGGAGCTTGTG
ACAACCTGGCTGCCCACAGAGCATGCCCAGGCCAAGACACAGCTTCTAAAGGTAGGGTGCAGATCCATGACA
CACGCCCAGTCAAACCTGAATTGGCATTGGTCTACATTGAGTATCTGCTGACTCATCCAAAGAACCAGGAGTGCT
TGCTCTCTGCTCCTCGGAAGAACTTAACCATCTTTTGAAAGCCCTTGAAACGTCAAAGGCAGATCTGGAGTCAC
TTCTGCAGACACCGGGTGGGAAGCCTCGTGGCTTCAGTGAAGCAGCTGCCCCGCGAGCCTTTGGTCTCCACTGTC
GCCTGAGCATCCATCTTCAGCACAGTTCTGTCTCAGAAGGAAAGGTGATTTGTCCATGTTGGAAGACACTGGCT
TTTGGTTAGAAAGCAAAATTTTATCTTTTATTCAAGATCAAGAAGAAGACTACCTGAAGCTTCATAGGGTCATTT
ATCAGCAAATTTACAGACCTACCTGACTGTGTGTAAAGATGTTGTTATGGTAGGCCTTGGTGACCATCAGTTTC
AGATGCAACTCTTACAGCGGAGTCTTGAATCATGCAAACAGTGAAGGGATTTTTTTATGTTTCATTACTTCTTG
ACATTCTGAAAGAGATAACTGGAAGTTCCTTGATTTCAGAAAACAGATTCAGATGAAGAAGTTGCAATGCTGTG
ACACAGTCCAGAAAGTATTTAGAAAATGTTGGAATGTATTGCACGGAGCTTCAGGAAGCAGCCGGAAGAAGGCC
TGCGGCTGCTTTATTCTGTTCAGAGGCCTCTTCATGAGTTCACTGCTGTTCACTCTCGGCACACAGACACCC
CTGTGCACCGGGGTGTACTTTCTACTCTGATCGCTGGGCCTGTGGTTGAGATAAGTACCAGCTACGGAAGGTTT
CTGACGTAGAAGAGCTTACCCCTCCAGAGCATCTTTCTGATCTTCCACCATTTTCAAGGTGTTTAAATAGGAATAA
TAATAAAGTCTTCGAATGTGGTCAGGTCAATTTTGGATGAATTAAGGCATGTGTGGCTTCTAATGATATTGAAG
GCATTGTGTGCTCAGGCTGCTGTGCATATTATCCTGGTTATTAATGCAGGTAAACATAAAAGCTCAAAAGTGA
GGGAGGTTGCAGCCACTGTTACAGAAAACATAAGACATTTCATGGAAATTACTTTGGAAGAGGATAGCATTGAAA
GATTTCTCTATGAATCATCATCAAGAACTCTGGGAGAACTTTGAATTCATAACCAAGCCAACATCTCCAGACAT
GTAAAAATAGGGAAAAGTGATTCAAATTGAAATGCCTGTGTATTTTCTATTGTTTTTAAATGTTAATAACCCATA
TAATAGGGAAAGGGTGGGATTTTTTGTGGGAATGTGGGAAGGTGGGGTTATGGAGGAGATAACTCAAACTTC
TTCAATTTTGCCTAGTGCCGTGCGTAAATAATATATTTAATAATAAGGACTCCAGGTATAAATGGTGTAGAAATCC
ATGATTCCAAGAAAAAACCTTTCTAGCAAACCTGGTGTGTTTTTAAATGACTTTTATATATGTAATATTGCTT
GGAAACTATGAGTAATAAAGCAATGACAACAAAAA

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FIGURE 2468

MLLECFININYIKKEEGRRFLSCLFNWNINFIKMIHGTIKNLQGLQKSLMVYIAEIIYFRAWKKASGKILEAIEN
DCIQDFMFHGIHLPRRSPVHSHKVRVLSYFHHQKKVRQGVVEMLYRLYKPIILWRGLKARNSEVRSNAAALLFVEAF
PIRDPNLHAIEMDSEIQKQFEELYSLLEDPYPMVRSTGILGVCKITSKYWEMMPPTILIDLLKKVTGELAFDTSS
ADVRCVTFKCLPMILDNKLSHPLLEQLLPALRYSLHDNSEKVRVAFVDMLLKIKAVRAAKFWKICPMEHILVRLE
TDSRPVSRRLVSLIFNSFLPVNQPEEVWCERCVTLVQMNHAAARRFYQYAHEHTACTNIAKLIHVIRHCLNACIQ
RAVREPPEDDEEEDGREKENVTVLDTLSVNDVACMAGLLEIIIVILWKSIDRSMENNKEAKLYTINKFASVLPEY
LKVFKDDRCKIPLFMLSFPASAVPPFSCGVISTLRSREEGAVDKSYCTLLDCLCSWGQVGHILEIVDNWLPTE
HAQAKSNTASKGRVQIHDTRPVKPELALVYIEYLLTHPKNRECLLSAPRKKLNHLLKALETSKADLESLLQTPGG
KPRGFSEAAAPRAFGHLHCRSLIHLQHKFCSEGKVYLSMLEDTGFWLESKILSFIQDQEEDYLKLHRVIYQQIIQT
YLTVCCKDVVMVGLGDHGFQMQLLQRLGIMQTVKGFFYVSLLLDILKEITGSSLIQKTDSDDEEVAMLLDTVQKVF
QKMLECIARSFRKQPEEGLRLLYSVQRPLHEFITAVQSRHTDTPVHRGVLSTLIAGPVVEISHQLRKVSDVEELT
PPEHLSDLPPFSRCLIGIIKSSNVVRSFLDELKACVASNDIEGIVCLTAAVHIILVINAGKHKSSKVREVAATV
HRKLKTFMEITLEEDSIERFLYESSRSLGELLNS

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FIGURE 2469

CGGGACGGAGGGGGCGGCCCCGCGCTCGGGGCGCTCGGCTACAGCTGCGGGGCCGAGGTCTCCGCGCACTCGC
TCCCGGCCCATGCTGGAGGCGGCGGAACCGCGGGGACCTAGGACGGAGGCGGCGGGCGCTGGGCGGCCCCCGGCA
CGCTGAGCTCGGGATGCGGACGCTGCTGCCCTCCCGCGCTGCTGACCTGCTGGCTGCTCGCCCCGTGAACAGCAT
TCACCCAGAATGCCGATTTTCATCTGGAAATACAGGAGGAAGAAACAAAATGTGCAGAGCTTCTGAGGTCTCAAAC
AGAAAAACACAAAGCCTGCAGTGGCGTCTGGGACAACATCACGTGCTGGCGGCCTGCCAATGTGGGAGAGACCGT
CACGGTGCCCTGCCCAAAGTCTTCAGCAATTTTTACAGCAAAGCAGGAAACATAAGCAAAAACCTGTACGAGTGA
CGGATGGTCAGAGACGTTCCAGATTTTCGTCGATGCCTGTGGCTACAGCGACCCGGAGGATGAGAGCAAGATCAC
GTTTTATATTCTGGTGAAGGCCATTTATACACTGGGCTACAGTGTCTCTCTGATGTCTCTTGCAACAGGAAGCAT
AATTCTGTGCCTCTTCAGGAAGCTGCACTGCACCAGGAATTACATCCACCTGAACCTGTTCTCTGCTTCATCCT
GAGAGCCATCTCAGTGTGGTCAAGGACGACGTTCTCTACTCCAGCTCTGGCACGTTGCACTGCCCTGACCAGCC
ATCCTCCTGGGTGGGCTGCAAGCTGAGCCTGGTCTTCCCTGCAGTACTGCATCATGGCCAACCTTCTTCTGGCTGCT
GGTGGAGGGGCTCTACCTCCACACCCTCCTGGTGGCCATGTCCCCCCTAGAAGGTGCTTCCCTGGCCTACCTCCT
GATCGGATGGGGCCTCCCCACCGTCTGCATCGGTGCATGGACTGCGGCCAGGCTCTACTTAGAAGACACCGGTTG
CTGGGATACAAACGACCACAGTGTGCCCTGGTGGGTCTATACGAATACCGATTTTAATTTCCATCATCGTCAATTT
TGTCCTTTTCATTAGTATTATACGAATTTTGCTGCAGAAGTTAACATCCCCAGATGTCGGCGGCAACGACCAGTC
TCAGTACAAGAGGCTGGCCAAGTCCACGCTCCTGCTTATCCCGCTGTTTCGGCGTCCACTACATGGTGTGTTGCCGT
GTTTCCCATCAGCATCTCCTCCAAATACCAGATACTGTTTGAGCTGTGCCTCGGGTCGTTCCAGGGCCTGGTGGT
GGCCGTCTCTACTGTTTCCTGAACAGTGAAGTGCAGTGCAGCTGAAGCGAAAATGGCGAAGCCGGTGCCCGAC
CCCGTCCGCGAGCCGGGATTACAGGGTCTGCGGTTCTCCTTCTCCCGCAACGGCTCGGAGGGCGCCTGCAGTT
CCACCGCGGCTCCCGCGCCAGTCCTTCCCTGCAAACGGAGACCTCGGTATCTAGCCCCACCCCTGCCTGTGCGGA
CGCGGCGGGAGGCCCCACGTTTCGGGGCTTCTGCGGGGCTGAGACGCGGCTTCTCCTTCCAGATGCCCGAGCAC
CGTGTCGGGCAGGTACGCGGGTCTGACTCCGTCAAGCTGGTTGTCCACTAAACCCCATACCTGG

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FIGURE 2470A

GTGAACCGTG CATGTGAGGGATCTAGGTTGCGCTATCCTTATGAGAATCTAATACCTATTGATCTGTCACTTTCT
CCCATCAGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTAACACGCCCAGTGATTCTACATTATGCTC
CTACCTCCCAGCAGCTCTCCAGGCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAAT
GGCTATTTAGGCCATACCCTACCTACGGCAGTCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAG
GCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTT
TCTCAAGTCGACCTACCCAGGCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCAGCTCCTGCATCTTGGTGG
CACCTCCAGGCCAGCCTCTGCCTCCGTCGGCCTCTACAATCCCAACATCTGCCTCACAGCAGATTCTTCAGGC
CCAGCATCTGCCTACTGTGGACCCCCAAGCCAAGCTCCCAACCTTTTCCAGCAGCTTCTACACACCCAACTCCTG
CCACCCAGTGGCCTCTTTAGGCCAAGCTCATGCTTACAAGGGCCTTTCCAGGCTCAACTTTTGTCTCATGGCAA
CCTTTCCTGGCCAGATTCTGCCTGTCTCCAGCAGCCTAGACAGGCCAGGTCTTGCCTCACACTGGCCTCTCT
ACATCCAGCTCATGCCTCACGGTGGCCTCTCCAGGCCAACTCCTGTCCAGGACGTCACTCTCCGGGCCAAAAC
TTACTCAAGTCAGACTCTCTAGTCCCAACTGCTGCCTCCTGGTGGCCTATGAAGGCCAAAATCTCCTCAAGTGG
ACCTCTCCAGGCCAGCTCCTGCCTCCTGTGCAGCCTCTACAGGCCAACTCTGCCTCATGGGGCTTCTCCAGG
CCCACCTCTTCTCTTGGCTGGGTCTACAGGCACAACCTGCTGCCTCACAACAGCCTTTTTTGGCCAGTTCTCT
CCAGCTCATGGCGGCCAATGTAGGCCAAAACCTTCTCAAGTCAAACCTCTCCAGGCCACCTTCTGCTTCCCGGT
GGCATGAACAGGCCAGCTTTGACTTGAGAACAGCCTCTGCAGGCCCTGCTCTTGCCTCCCAGGGCTTTTTCCA
GACCCAGCTCCTGCCTCATGGCAGCTGCCCCAGGCCAAATTTCTGCCTGCCTGCCAGCAGCCTCAACAGGCACAG
CTCTCCCTCACAGTGGCCCAATTTAGGCCAACTCATGACTGTGCGGCCATTTCCAGGCCTAGTGCCTGCCTCGT
GGCTGACTCTTGAAGCCAAAACCTTCTCAAATCAGCCTTTTGCCCAACTTCTGTCTACTGTGCGACTCTACAGG
CCAGCCTCTGCCTCACAGTGGACCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGC
CTTTCCGCAGCCTCTACAGGCCAGCTCCTGCCTTGCACTGGCCTCTTTAGGCCAAGCTCATGCCCATGGCGAC
TTTTCCAGGCACAGCTTTTGCCTTTTGCAGCCTGTCCAGGCCAGAAATGTCTTAACCTCGGCATCTCCAGGATGA
GCTCATCTCTCCAGTGCCTCTACAGGCCGTCTCCTGCCTCACAACAACCTCCTTTGGCCAACTCCTGCTGAGC
TGCTGGCAGCCTCTGTAGGCCACAGAATTCTTAAGGTAAAGCTTTCCAGGCCACCTTTGGCTCCCGGCAGGCT
CAGCAATCAAACATACTCCCTCACTGCGGCCACCGAAAGCCAAGTTTCTCCCTGCCTCACGGCATCCTCCGAAAAC
TGAGCATTTGCCTCACGGTGGCCTCCCCAGGCCATGAATCTGCCTGCCTCCCAGGCAGCTGCTGCCTCACAATGG
TCTCTTTAGGCCAGCTCATGCTAAAAGATGGACTCTCCAGGCACAGCTCTTGCCTCCTGGCAGCCTCTGCAGGC
CCAAATTCTCCAAAAGTTGGCCTCTCCTAACTCAGCTCCTGCCTCATGTGCGCTACACAGGCCAGACTCTTAC
CACACAGTAGACCTCCAGGCCACCACTTGCTGATCATAGCCTCCTAAGGCCAAGCTCCTGCCTTTCCGGCAGC
CTCTACAGGCCAAGCTCCTGCCTCGCAATTGCCTCTGTAGGCCAAGATCATGCCGTGAAGTGGCCTTCCCTAGCC
TAACTTTTGCTTTTTGACGCATACTCCAGTCCCAAACTTCTCCAGTCAGCCGGTCCAGGCCAAGCTCTTCTC
CCAAAGGCTTCTGCAGGCCAAAATCATCTGAAGTCAACCTCTGCAGGCGCAGCTCCTGCCTCCAAGTGTGTGT
AGGCCAAGCTAATGCCTCACAGCACACTTTCCAGGCTGAGCATTTCTTTTGTGCATCCTCTCCAAGCCCTGAAC
TTACTCCAGTTGGCCTCTCCAGACCAAGCTCTCCCTCCAGTGGCCTCTACAGGCCAAAATTGTCTCAGGTCAG
CCTCTCCAGGGCCAACCTCTAGCTACCGGTGGCTCTGCAGGCCAAAATCGACCTCAAGTCAGCCTCTTCACACC
CAGCTCTTGCCTCTGAGTGGCCTCTCCAGGAGCAAACTTTCTCAAGTCGGCCTCTCCAGGCCAGCCTCCTGCT
TCCCGAGGGCATGTACAGGCCAGCCTCTGCCTCACAGCAGACTCTTCACACCCAGCTCTTCCCTGTCTGCGGCC
TCTCCAGTCCAAAGCTGCTCCTGCCTTTTGGCAGCTTGTACAGGCCAGCTCCTCCCTCACGGTGGCCTCTTTCC
GCCAACTCATGCCTCTTGCAACGTGCCAAGTGTGAGCTCCTGCCTCACACTGGCCTGTTGAGGCCAGCTCAT
GCCTCTCGTGGCCTCAACGGGGCCATCCCTGCCTGTGCGCGGCCCTCTACAGGCCGGCCTCTACCTCACAGTGG
GCTCTCCAGGCCACCTCTTCTCACCGTGGCCTCTTGGGGCAATGCTCCTCCCTCTCGGGAGCCTCTGTGGGCC
CAGCTCCTGCCTCCAGTGGCCTCTGCTGGCCAAGCCGTGCTCAGGCGAGCCTTCCAGGCCAGCCTTAGCGTTGCT
GCTTTGCATCCTCTCCAGGCCCTGGACTTCTCCAGTCGGCCTCTCCAGGCCAGCTCTTCTCTCGCGGCCCTC
TGCAGGCCAGACTGTCTGCAAGTCGGCCTGTCCAGGCCAGCTCCTGCCTCCCGCGGCCCTCTGAGGCCCAAG
TCGTCTCAAGTTGGCCTCCCGAGGCCAGCAACGGCCTCTCGCGGCCCTTTCCGGGTGCAAAAGTTCTCTCGAGT
CAGCCTCTCCAGGCCAGCTCCTCTGCCTCCAGTGGCCTCTTCCGGGCCAGGCCAGCTCATGCTCCCGGCCG
CCTTCCCGAGGCCCTGCTTTGACTTTCCGGTGGCCTCTGCAGGCCCTCGACAAGGCCAGGCCTCCTGCCTCCCAAAG
GCCTGCACAGGCCAGCCTCTGCCTCACAGCAGACTCTCCAGGCCAGCTAGCTCTGCCTCACTGCGGCTTCCC

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FIGURE 2470B

GAGTCCAAAGCTCCTGCCTCTCAGCCGCTTCGGCAGGCCAGCTCCCGCCTGCCAGTGGCCTCTTCAGGCCCATG
GGGCTCATTCTCACAACGGCCTTCCAGGCCAGTTTTCCCTTCCGGCGGCCTCTTGGCCTCTAATTTGTTA
TCTTTGGGTATAAATCCCAAATATTGAATTTTGAATATTCCACCATT

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FIGURE 2471

TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCCACTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCTAATAAATGTAAATGTGCTTAAATCTTTTGGCCCAGCTCCTACCTCCCAGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCCTACCTCAC
GGCAGTCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCACCTCCAGGCCCAGCCTCTGCCTCCCGT
CGGCCTCTACAATCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTCACTGTGGACCCCCCA
GACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCCGCAGCCTCTCCAGGCCCAGCTCC
TCCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGGCTCTCGGCGGCCTTCCCAGGCCCCGCTTTTGA
CTTTTGGCGGCCTCTTCAGGCC

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FIGURE 2472

TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCCACTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAAATGGAAATA
AAGTGCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCTGGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCTACGTCAC
GGCAGTCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCCAGCCTCTGCCTCCCGT
CGGCTCTACAGTCCCAACATCTGTCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTCACTTGGACCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTTCGGCAGCCTCTCCAGGCCCAGCTCCT
CCTGCCTCCCAGTGGCCTCTTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCCACCGAAAGTCCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCA

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FIGURE 2473

ATGTTGCCAATAACACAGATGAAGAGACTGGGGGATGGCACTATCACTGCTGCTGTACTGAAGGTTAGCAAAGGT
GCTAATCCAGTGGAAATCAAGAGAGGTGTGATGTTAGCTGTTGATGCTGTAATTGCTGAACTTAAAAAGCAGTCT
AAACCTGTGACCAAACCTGAAGAAATTGCACAGGTTGCTACAATTTCTGCAAATGGAGACAAAGAAATTGGTAAC
ATCATCTCTGATGCAATGAAAAAGTTTGAAGAAAGGGCATCATCACAAAAATTTCTAGTGTCCAGTCCATTGTA
ACTGCTCTTGAAATTGCCAATGCTTACTGTAAGCCTTTGGTCATAATTGCTGGAGACATTGATGGAGAAGCTCTA
ACTACACTCATCCTGAATAGGCTAAAGGTTGGTCTTCAGGTTGTGGCAGTCAAAGCTCCAGGGTTTGGTGACAAT
AGAAAGAACCAGCTTAAAGATACGGTTATTGCTACTGGTGGAGAAGTTGGAGAGGTCACTGTGATCAAAGATTAT
GCCATGCTCTTAAAAGGAAAAGGTAACAAGTCTCAAATTGAAAAATGTGTTCAAGAAATCATTGACCAGTCAGAT
GTCACAACTAGTGAATACGAAAAGGAAAACTGAGTGGAGAACTTTCAGATGGAGTAGCTGTGCTGAAGCTAAT
GAAGATAAAATAATTGGTATAGAAATTATTAAAAGAACACTCAAAATTCAGCAATGACAATTGCTAAGAATGCA
GGTGTGATGGATTTTGTAGTTGAGAAAATTATGTAA

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FIGURE 2474

MLPITQMKRLGDGTITA AVLKVS KGANPVEIKRGV MLAVDA VIAELKKQSKPVT KPEEIAQVATISANGDKEIGN
IISDAMKKFGRKG IITKISSVQSIVTALEIANAYCKPLVIIAGDIDGEALT TLILNRLKVGLQVVAVKAPGFGDN
RKNQLKDTV IATGGEVGEVTVIKDYAMLLKGKGNKSQIEKCVQEIIDQSDVTTSEYEKEKLSGETFRWSSCAEAN
EDKIIGIEI IKRTLKIPAMTI AKNAGVDGFLIVEKIM

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FIGURE 2475

ATGTACTGGGACATCGTGTCTTTGGAGACAGCTATACCCCACTTGTCCATTCTGCTGAGGCCCACAAATGCCATC
ACCCAGAAGCCCTTCACATCCACTGGGGCCACAGCAGGATACAGTCTGTTGCTGGTCCAGCAGCCTGATAAAATC
ATTGTCTCTCCACCCCTGATTCTACAGGAGACTACTCACCCCATAACTCAAAAACCTCTTCATGAGGATGGTG
ACCCAGCCATGAGGACCCTCGCCATCCTTGCTGCCATTCTCCTGGTGGCCCTGCAGGCCCAGGCTGAGCCACTC
CAGGCAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATCCAGAAGTGGTTGTTTCCCTT
GCATGGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGAAAAACATGGACTGCTATTGCAGAATACCAGCG
TGCATTGCAGGAGAACGTCGCTATGGAACCTGCATCTACCAGGGAAGACTCTGGGCATTCTGCTGCTGA

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FIGURE 2476

CTATAGAAGACCTGGGACAGAGGACTGCTGTCTGCCCTCTCTGGTCACCTGCCTAGCTAGAGGATCTGTGACCC
CAGCCATGAGGACCCCTCGCCATCCTTGCTGCCATTCTCTGGTGGCCCTGCAGGCCCAGGCTGAGCCACTCCAGG
CAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATCCCAGAAGTGGTTGTTCCCTTGCA
GGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGAAAAACATGGCCTGCTATTGCAGAATACCAGCGTGCA
TTGCAGGAGAACGTCGCTATGGAACCTGCATCTACCAGGGAAGACTCTGGGCATTCTGCTGCTTGAGCTTGCAGAA
AAAGAAAAATGAGCTCAAAATTTGCTTTGAGAGCTACAGGGAATTGCTATTACTCCTGTACCTTCTGCTCAATTT
CCTTTCCTCATCCCAAATAAATGCCTTGGTACAAGAAAAG

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FIGURE 2477

MRTLAILAAILLVALQAQAEPLQARADEVAAAPEQIAADIPEVVVSLAWDESLAPKHPGSRKNMACYCRIPACIA
GERRYGTCTIYQGRLWAFCC

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FIGURE 2478

CCTTGCTATAGAAGACCTGGGACAGAGGACTGCTGTCTGCCCTCTCTGGTCACCCCTGCCTAGCTAGAGGATCTGT
GACCCAGCCATGAGGACCCCTCGCCATCCTTGCTGCCATTCTCCTGGTGGCCCTGCAGGCCAGGCTGAGCCACT
CCAGGCAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATCCCAGAAGTGGTTGTTTCCT
TGCATGGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGAAAAACATGGACTGCTATTGCAGAATACCAGC
GTGCATTGCAGGAGAACGTCGCTATGGAACCTGCATCTACCAGGGAAGACTCTGGGCATTCTGCTGCTAGGCTTG
CAGAAAAAGAAAAATGAGCTCAAAATTTGCTTTGAGAGCTACAGGGAATTGCTATTACTCCTGTACCTTCTGCTC
AATTTCTTTCTCATCTCAAATAAATGCCTTGTTAC

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FIGURE 2479

MRTLAILAAILLVALQAQAEPLQARADEVAAAPEQIAADIPEVVVSLAWDESLAPKHPGSRKNMDCYCRIPACIA
GERRYGTCTIYQGRLWAFCC

2697/6881
FIGURE 2480

ATGCAGGTCTGCAACTGCAGGTGCCTCTCACCTGGTGACCTGCAGGAAGATGGAGGAGCATATTGGGCACAGTGC
TCGGTTTGGGGGGCGCACTTCGACCCGGAAGTTTACCTAGACAAGCTGCATAGAGTGTGCCCTCTGGCCCAGCTG
ATGGACAGTGAGACGGACATGGTGCGGCAGATCCGGGCTATAGACAGCGACATGCAGACCCTGGTCTATGAGAAC
TACGACAAGGAGACTATCGGGGTGCAACCTGGCTGGGGCGGGAGGAGGTGCAGGGCCTGGCCAGAGCGGGCCTG
GCCACGGGCAAGGGACAGCGACCGCCTGGGCCAGGACAGGTGAGAGCGGCGCAGTCCCGGGCCCCGGCGTGTCGCG
GCTGCGCGGGAGAGGCCAGCAGAGGGCGCCAGAGAGCCAGGAGCGGCCCCGCGGAGGAGCCCCGCGCCAGCCGGATG
CCCAGCTCCGCGCCGCGCGGACCCAAACGAGCCCGCGCTCAGACGCCCCAGCTCCGCCGAGAGGCCGCTCGCGCCG
GGCAGAGCCCCCTGGAGCCATGGCCAGCCCTTCCGGCAGCTCCGAAGCCACTGGCAAGCCCCGAGGCAGGGATGGC
CGGCCCAGGAGGGAGGAGGACGACGTCCCTCCGAAGAGAAGAGGCTACGGCTGTTGCTGGAGGGGGGAAGCGCA
CAGCCCAGGACTGCGAGGACGGGGAGGACGCGCTGCGGCCGGGCAGGGAGGAGACCGGCACCTAG

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FIGURE 2481

MQVCNCRCLSPGDLQEDGGAYWAQCSVWGAHFDPEVYLDKLHRVCPLAQLMDSETDMVRQIRAIIDSDMQTLVYEN
YDKETIGVQPGWGGEEVQGLARAGLATGKGQRPPGPGQVRAAQSRARRVRAARERPAEGAREPGAARGGARASRM
PSSAPRGPNEPALRRPSSAERPLAPGRAPGAMASPSGSSEATGKPRGRDGRPRREDDVPPEEKRLRLLEGGSA
QPEDCEDGEDALRPGREETGT

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FIGURE 2482

GAGAGTCGCGCCCCGGGAGTCCGCGCCTGCGCCAGGATGGAGTTTCGTGAAATGCCTTGGCCACCCCGAAGAGTTC
TACAACTTGGTGCGCTTCCGGATCGGGGGCAAGCGGAAGGTGATGCCCCAAGATGGACCAGGACTCGCTCAGCAGC
AGCCTGAAAACCTTGCTACAAGTATCTCAATCAGACCAGTCGCAGTTTCGCAGCTGTTATCCAGGCGCTGGATGGG
GAAATGCGCAACGCAGTGTGCATATTTTATCTGGTTCTCCGAGCTCTGGACACACTGGAAGATGACATGACCATC
AGTGTGGAAAAGAAGGTCCCGCTGTTACACAACCTTTCACTCTTTTCTTTTACCAACCAGACTGGCGGTTTCATGGAG
AGCAAGGAGAAGGATCGCCAGGTGCTGGAGGACTTCCCAACGATCTCCCTTGAGTTTAGAAATCTGGCTGAGAAA
TACCAAACAGTGATTGCCGACATTTGCCGGAGAATGGGCATTGGGATGGCAGAGTTTTTGGATAAGCATGTGACC
TCTGAACAGGAGTGGGACAAGTACTGCCACTATGTTGCTGGGCTGGTCGGAATTGGCCTTTCCCGTCTTTTCTCA
GCCTCAGAGTTTTGAAGACCCCTTAGTTGGTGAAGATACAGAACGTGCCAACTCTATGGGCCTGTTTTTGCAGAAA
ACAAACATCATCCGTGACTATCTGGAAGACCAGCAAGGAGGAAGAGAGTTCTGGCCTCAAGAGGTTTGGAGCAGG
TATGTTAAGAAGTTAGGGGATTTTGCTAAGCCGGAGAATATTGACTTGGCCGTGCAGTGCCTGAATGAACTTATA
ACCAATGCACTGCACCACATCCCAGATGTCATCACCTACCTTTTCGAGACTCAGAAACCAGAGTGTGTTTAACTTC
TGTGCTATTCCACAGGTGATGGCCATTGCCACTTTGGCTGCCTGTTATAATAACCAGCAGGTGTTCAAAGGGGCA
GTGAAGATTTCGGAAGGGCAAGCAGTGACCCTGATGATGGATGCCACCAATATGCCAGCTGTCAAAGCCATCATA
TATCAGTATATGGAAGAGATTTATCATAGAATCCCCGACTCAGACCCATCTTCTAGCAAAACAAGGCAGATCATC
TCCACCATCCGGACGCAGAATCTTCCCACTGTCAGTGATTTCCCGAAGCCACTACTCCCCATCTACCTGTCTG
TTTGTATGCTTTTGGCTGCCCTGAGCTGGCAGTACCTGACCACTCTCTCCAGGTAACAGAAGACTATGTTTCTAG
ACTGGAGAACTGATCCCAAATTTGTCCATAGCTGAAGTCCACCATAAAGTGGATTTACTTTTTTTCTTTAAGG
ATGGATGTTGTGTTCTTTATTTTTTCTTACTACTTTAATCCCTAAAAGAACGCTGTGTGGCTGGGACCTTTA
GGAAAGTGAAATGCAGGTGAGAAGAACCTAAACATGAAAGGAAAGGTGCCTCATCCAGCAACCTGTCTTGTG
GGTGATGATCACTGTGCTGCTTGIGGCTCATGGCAGAGCATTGAGTGCCACGGTTTAGGTGAAGTCGCTGCATAT
GTGACTGTGATGAGATCCTACTTAGTATGATCCTGGCTAGAATGATAATTAAAAGTATTTAATTG

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FIGURE 2483

TCCGGCAACGCCAACCGCTCCGCTGCGCGCAGGCTGGGCTGCAGGCTCTCGGCTGCAGCGCTGGGCTGGTGTGCA
GTGGTGCAGACCACGGCTCACGGCAGCCTCAGCCACCCAGATGTAAGCGATCTGGTTCCCACCTCAGCCTCCCGAG
TAGTGGATCTAGGATCCGGCTTCCAACATGTGGCAGCTCTGGGCTCCCTCTGCTGCCTGCTGGTGTGGCCAAT
GCCCCGAGCAGGCCCTCTTTCCATCCCCGTGTCGGATGAGCTGGTCAACTATGTCAACAAACGGAATACCACGTGG
CAGGCCGGGCACAACCTTCTACAACGTGGACATGAGCTACTTGAAGAGGCTATGTGGTACCTTCCTGGGTGGGCC
AAGCCACCCCAGAGAGTTATGTTTACCGAGGACCTGAAGCTGCCTGCAAGCTTCGATGCACGGGAACAATGGCCA
CAGTGTCCCAACCATCAAGAGATCAGAGACCAGGGCTCCTGTGGCTCCTGCTGGGCTTCGGGGCTGTGGAAGCC
ATCTCTGACCGGATCTGCATCCACACCAATGCGCACGTACGCTGGAGGTGTGCGCGGAGGACCTGCTCACATGC
TGTGGCAGCATGTGTGGGGACGGCTGTAATGGTGGCTATCCTGCTGAAGCTTGGAACTTCTGGACAAGAAAAGGC
CTGTTTTCTGGTGGCTCTATGAATCCCATGTAGGGTGCAGACCGTACTCCATCCCTCCCTGTGAGCACCACGTC
AACGGCTCCCGGGCCCCATGCACGGGGGAGGGAGATACCCCAAGTGTAGCAAGATCTGTGAGCCTGGCTACAGC
CCGACCTACAAACAGGACAAGCACTACGGATACAATTCTACAGCGTCTCCAATAGCGAGAAGGACATCATGGCC
GAGATCTACAAAACGGCCCCGTGGAGGGAGCTTTCTCTGTGTATTCCGACTTCCTGCTCTACAAGTCAGGAGTG
TACCAACACGTCACCGGAGAGATGATGGGTGGCCATGCCATCCGCATCCTGGGCTGGGGAGTGGAGAATGGCACA
CCCTACTGGCTGGTTGCCAACTCCTGGAACACTGACTGGGGTGACAATGGCTTCTTTAAAATACTCAGAGGACAG
GATCACTGTGGAATCGAATCAGAAGTGGTGGCTGGAATTCCACGCACCGATCAGTACTGGGAAAAGATCTAATCT
GCCGTGGGCTGTGTCGTGCCAGTCCCTGGGGGCGAGATCGGGGTAGAAATGCATTTTATTCTTTAAGTTCACGTAAG
ATACAAGTTTCAGACAGGGTCTGAAGGACTGGATTGGCCAAACATCAGACCTGTCTTCCAAGGAGACCAAGTCCT
GGCTACATCCCAGCCTGTGGTTACAGTGCAGACAGGCCATGTGAGCCACCGCTGCCAGCACAGAGCGTCCTTCCC
CCTGTAGACTAGTGGCGTAGGGAGTACCTGCTGCCCCAGCTGACTGTGGCCCCCTCCGTGATCCATCCATCTCCA
GGGAGCAAGACAGAGACGCGAGGAATGGAAAGCGGAGTTCCTAACAGGATGAAAGTTCCTCCATCAGTTCCCCAG
TACCTCCAAGCAAGTAGCTTTCCACATTTGTACAGAAATCAGAGGAGAGACGGTGTGGGAGCCCTTTGGAGAA
CGCCAGTCTCCAGGCCCTGCATCTATCGAGTTTGCAATGTCAACCTCTCTGATCTTGTGCTCAGCATGAT
CTTTAATAGAAGTTTTATTTTTTCGTGCACTCTGCTAATCATGTGGGTGAGCCAGTGGAAACAGCGGGAGACCTG
TGCTAGTTTTACAGATTGCCTCCTTATGACGCGGCTCAAAGGAAACCAAGTGGTCAGGAGTTGTTTCTGACCCA
CTGATCTCTACTACCACAAGGAAATAGTTTAGGAGAAACCAGCTTTTACTGTTTTTGAAAAATTACAGCTTCAC
CCTGTCAAGTTAACAAGGAATGCCTGTGCCAATAAAAGTTTTCTCCAATTGA

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FIGURE 2484

MWQLWASLCCLLVLANARSRPSFHPLSDELVNYVNRNTTWQAGHNFYNVDMSYLKRLCGTFLGGPKPPQRMFT
EDLKLPASFDAREQWPQCPTIKEIRDQSGSCGSCWAFGAVEAISDRICIHTNAHVSVEVSAEDLLTCCGSMCGDGC
NGGYPAEAWNFWTRKGLVSGGLYESHVGCRPYSIPPCEHHVNGSRPPCTGEGDTPKCSKICEPGYSPTYKQDKHY
GYNSYSVSNSEKDIMAEIYKNGPVEGAFSVYSDFLLYKSGVYQHVTGEMMGHAIIRILGWGVENGTPYWLANSW
NTDWGDNGFFKILRGQDHCGIESEVVAGIPRTDQYWEKI

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FIGURE 2485

CTGGGAAGCAGAGTGTCTGGATGGAACCTGAGCTGGGTCTCTGACTCACTTCTGACTTTAGTTTTTTCAAGGGG
AACATGGCAAAGGTGTTTCAGTTTCATCCTTGTTACCACCGCTCTGATAATGGGCAGGGAAATTCGXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXAGATTTTCAATGATGGGTATAAGCTCAGTGGATTTACAAAATC
AAACCTCTCCAGAGCCTAGCAGAATTTTCTGTTTATTGTGACATGTCCGATGGAGGAGGATGGACTGTAATTCAG
AGACGATCTGATGGCAGTGAAACTTTAACAGAGGATGGAAAGACTATGAAATGGCTTTGGAAATTTTGTCCAA
AAACATGGTGAATATTGGCTGGGCAATAAAATCTTCACTTCTTGACCACTCAAGAAGACTACACTTTAAAAATC
GACCTTGCAGATTTTGAAAAAATAGCCGTTATGCACAATATAAGAATTTCAAAGTTGGAGATGAAAAGAATTTT
TACGAGTTGAATATTGGGGAATATTCTGGAACAGCTGGAGATTCCCTTGCGGGGAATTTTCATCCTGAGGTGCAG
TGGTGGGCTAGTCACCAAAGAATGAAATTCAGCACGTGGGACAGAGATCATGACAACTATGAAGGGAACGCGCA
GAAGAAGATCAGTCTGGCTTGTGGTTTAAACAGGTGTCACTCTGCAAACCTGAATGGTGTATACTACAGCGGCCCC
TACACGGCTAAAACAGACAATGGGATTGTCTGGTACACCTGGCATGGGTGGTGGTATTCTCTGAAATCTGTGGTT
ATGAAAATTAGGCCAAATGATTTTATTCCAAATGTAATTAAATGCTGCTGTTGGGCTTTTCGTTTCTGCAATTCA
GCTTTGTTTAAAGTGATTTGAAAAATACTCATTCTGAACATATCCATGCGCAATCATGATAACTGTTGTGAGTAG
TGCTTTTCATTCTTCTCACTTGCCTTTGTTACTTAATGTGCTTTCAGTACAGCAGATATGCAATATTCACCAAAT
AAATGTAGACTGTGTT

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FIGURE 2486

MAKVFSFILVTTALIMGREISXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXIFNDGYKLSGFYKIKPLQSLAEFSVYCDMSDGGGWTVIQRRSDGSENFNRGWKDYENGFGNFVQK
HGEYWLGNKNLHFLTQEDYTLKIDLADFEKNSRYAQYKNFKVGDEKNFYELNIGEYSGTAGDSLGNFHPFVQW
WASHQRMKFSTWDRDHDNYEGNCAEEDQSLWFNRCHSANLNGVYYSGPYTAKTDNGIVWYTWGWWYSLKSVVM
KIRPNDFIPNVI

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FIGURE 2487

GGGACAGAGGAGACAAGATGGCGCTGCGGGCGATGCGGGGGATTGTCAACGGGGCCGCACCCGAGCTACCCGTGC
CCACCGGTGGGCGCGGTGGGAGCTCGGGAGCAGGCGCTGGCAGTCAGTCGGAACCTCTCCAGCCTCGCC
TCACATACAAGACAGTATCTGGAGTCAATGGTCCACTAGTGATCTTAGATCATGTTAAGTTTCCAGGTATGCTG
AAATTGTCCATTTGACCTTACCGGATGGCACAAAGAGAAGTGGGCAAGTTCTGGAAGTTAGTGGTTCCAAGGCAG
TAGTTCAGGTATTTGAAGGGACTTCAGGTATAGATGCTAAGAAAACGTCTGTGAGTTTACTGGGGATATTCTCC
GAACACCGGTGTCTGAGGATATGCTTGGTCGGGTATTCAATGGATCGGGAAAACCCATTGACAGAGGTCTGTG
TACTGGCCGAAGACTTCCTTGATATCATGGGTCAGCCAATCAACCCTCAATGTCGAATCTACCCAGAGGAAATGA
TTCAGACTGGCATTTCGGCCATCGATGGGATGAACAGTATTGCTAGGGGGCAGAAAATTCCTATCTTCTGTCTG
CTGGGCTACCACACAATGAGATTGCAGCTCAGATCTGTGCGCAGGCTGGTTTGGTAAAGAAATCCAAAGATGTAG
TAGACTACAGTGAGGAAAATTTGCAATTGTATTGCTGCTATGGGTGTAAACATGGAACTGCCCGGTCTTCA
AATCTGACTTTGAAGAAAATGGCTCAATGGACAATGTCTGCCCTCTTTTGAAGTTGGCTAATGACCCAAACATTG
AGCGAATTATCACTCCTCGCTGGCTCTAACCACAGCTGAATTTCTGGCGTACCAATGTGAGAAACATGTATTGG
TTATTCTAACAGACATGAGTTCTTATGCTGAAGCACTTCGAGAGGTTTCAGCAGCCAGGGAAGAGGTACCTGGTC
GACGAGGTTTTCCAGGTTACATGTATACAGATTTAGCCACGATATATGAACGCGCTGGGCGAGTGGGAAGGGAGAA
ACGGCTCGATTACTCAAATCCCTATTCTAACCATGCCTAATGATGATATCACTACCCCATCCCAGACTTGACTG
GCTACATTACAGAGGGGCAGATCTATGTGGACAGACAGCTGCACAACAGACAGATTTATCCACCTATCAATGTGC
TGCCCTCACTATCACGGTTAATGAAGTCTGCTATTGGAGAAGGGATGACCAGGAAGGATCATGCCGATGTATCTA
ACCAGCTAGTATGCGTGTCTATGCTATTGGAAGGATGTGCAAGCCATGAAAGCTGTCGTTGGAGAAGAAGCCCTT
ACCTCAGATGATCTTCTACTTGGAAATTTCTGCAGAAGTTTGAGAGGAACTTCATTGCTCAGGGTCCCTACGAA
AATCGCACTGTCTTTGAGACTTTGGACATTGGCTGGCAGCTACTCCGAATCTTCCCCAAAGAAATGCTGAAGAGA
ATCCCTCAGAGCACCTCAGCGAATTTTACCCTCGAGACTCTGCAAAGCATTAGCTGCTGCTTCTGCATTGCTCC
GCGCTCTTGTAATACTGGTCTGTGTTTTCTTTATTCTTTTGCACTCTCGGTTCCACCTTTGTGTTGGAGTTT
ACCATGTTACCCTGTAATTAATAAACAAGAATAGGTAACATATTGTGCCAGTGTGCAACGTTTTAACTGCTAA
CAGACCTTAAATATCCCCCTACCTGGGTCTCAGTGCTATGTTTAAAGTGCTGCAGGGATGGAGTGGCGTTTTT
TTATTGCTGTATGTATTGTACATAGTGGAGTAGTTAGTTACCTGATAACAGTCTTGTTATTTGGGTCTCTTAGAC
CTTACCTCTCAACTCCCTCAAGAGTACCACTCTCTGAAGTTATAATGCTTTGGTCTCTACATTAGGGGCAAGATC
CAGTCTGAGAGAAGTCTCCTTTGAGAAGGGCCAAGAGGCTCTTTCCTGAGTGTGCTTTGCTTTGCTTTGCTTTGCT
CCTGTATTGCTGGGCTGTGCTGCTGCTCGAAGCAGATGGTTTTGACTGTCTTTTGTCTTTCTATATAATGAA
TAGATGAGTGAAAGGAGTTTTCTTTTCTCTTTAGTACTTACGTATTGGGATTCCTGTGCTTACAGCTCTCCCT
CTCCAAATAATACACAGAATCCTGCAACTTTTGCACAGCTGGTATCTGTCTGGTAGCAGTGAGACCCCTTGCT
TGGTGATCCTTACTGGGTTTCCAAGCAGAGGAGTCACATGATTACAATTGCCAGTAGAGTTGTTGTTGGGGTAC
AAGATGAGAAGAAAGAAAAACCTACAGCCTTTCTACATTCTGACATGCTAACAGTGGTTTAAGTTTCTAAAGTGT
TTACCAGATGCTGAAGGCAAGGGGAGGGAGCAGAAGCACTTATGTTTACGGATATTTTAAACTCTGTTAGAGAGC
AGCCTTTGAAAATCCCCAATTTGGTTCTGCTTTTACCTCTCTACCTTTTCAGGGTAATCTTTGTGGCACAA
ACGATAGCATTTCCAAGCTTTAGAGTTTTCTGAATTC

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FIGURE 2488A

CTGGCCGGGAGGCTGGAGCCCAGCAGCAGCGCGGCGCGCGCGCTCGTCCCAACTTGCAGGCGCGGAGGGACCC
CTGACATTTCACTAAATGAGCGTGCTCAGCAGGAAGAGATGTGTTCTCACGCTAGAAGCCACCCCGTCACATG
TAGTGGTGTCCCGTTTAAATCGATTCTGACATGGATTATGAAAGGCCAAACGTAGAGACCATCAAGTGCGTTGTGG
TGGGGGACAACGCCGTGGGTAAGACCAGGCTCATCTGTGCCCCGCGCTTGCAATGCCACCCTCACCCAGTACCAGC
TGCTGGCCACGCATGTGCCACAGTATGGGCCATCGACCAATATCGTGTGTGCCAGGAGGTGCTGGAACGCTCCC
GAGACGTGGTAGATGATGTACAGCTCTCTGTGCGCTCTGGGACACCTTTGGAGACCACCACAAAGACCGTCGCT
TTGCTTATGGGAGATCTGATGTGGTGGTTCTGTGCTTCTCCATTGCCAACCCCAATTCCCTCCACCATGTCAAGA
CCATGTGGTACCCAGAAATCAAGCACTTCTGCCCCGAGCACCTGTCTATCTTGGTGGGCTGCCAGTTGGACCTGC
GCTACGCTGACCTGGAGGCTGTCAACAGGGCTAGGCGACCTTGGCTAGGCCCATCAAACCTAATGAAATCCTGC
CCCCAGAGAAGGGTCGGGAGGTGGCCAAGGAGCTGGGCATCCCTACTATGAGACCAGCGTGGTGGCCAGTTCCG
GCATCAAGGACGCTCTTGACAACGCCATCCGAGCTGCACTCATCTCCCGCCGCCACCTGCAGTTCTGGAAGTCCC
ACCTCCGCAATGTGCAGCGGCCTCTGTCTGACGGCACCTTCTTACCCCCCAAGCCACCGCCCCCGATCATCGTGG
TGCCCGACCCCTCCCTCCAGCAGCGAGGAGTGCCCCGCCACCTCCTGGAGGACCCGCTCTGCGCGGACGTCATCC
TGGTGTCTGACGAGCGGGTGCGCATCTTTGCCACAAAGATCTACCTCTCCACCTCCTCCTCCAAGTTCTATGACC
TGTTCTCATGGACCTGAGTGAGGGGGAGCTGGGGGGCCCTCGGAGCCAGGGGGCACCCACCCAGAGGACCACC
AGGGCCACTCTGATCAACACCACCACCATCACACCACCACCATGGGCGAGACTTCTGTCTCCGAGCAGCCAGCT
TTGACGTGTGCGAGAGCGTGATGAGGCTGGGGGCTCCGGTCTGTGTCCTCCGTGCTTCCACCAGCGACGGGA
TCTTACGGGGCAACGGAACAGGGTACCTACCGGGCAGGGGTCGTGTGCTGTCTTCTGGAGCCGAGCTTTTGTGA
GCATCCAGGAAGAGATGGCAGAAGATCCTCTCACCTACAAATCCCGGCTGATGGTGGTGGTGAAGATGGACAGTT
CCATCCAGCCGGGGCCCTTCCGGGCTGTCTCAAGTACCTGTACACGGGGGAGCTAGATGAGAACGAGCGTGACC
TCATGCACATTGCCACATTGCTGAGCTGCTCGAGGTCTTTGATCTGCGCATGATGGTGGCCAACATTCTCAACA
ATGAGGCCTTCATGAACCAGGAGATCACCAAGGCCTTCCACGTCCGCCGACCAACCGGGTTAAGGAGTGCTTGG
CAAAGGCACCTTCTCAGATGTGACCTTCATCTGGATGATGGCACCATCAGCGCCCAAGCCCTGTTGATTT
CCAGCTGTGACTGGATGGCTGCCATGTTTGGGGGGCCATTGTGGAGAGCTCCACCCGGGAGGTGGTGTTCCT
ACACAAGCAAGAGCTGCATGCGGGCCGTGCTGGAATACCTCTACACCGGCATGTTACCTCCAGCCCCGACCTGG
ATGACATGAAGCTCATATTCTAGCCAACCGCCTTGCTGCCACACCTGGTTGCCCTCACAGAGCAGTACACAG
TGACCGGGCTGATGGAAGCGACCCAGATGATGGTGGACATCGATGGGGACGTCCTTGTGTTCTTGGAACTGGCTC
AGTTCCACTGTGCGTACCAGCTGGCCGACTGGTGTCTCCACCACATCTGCACCAACTACAACAACGTGTGCCGCA
AGTTCCCCCGAGACATGAAGGCCATGTCCCCAGAAAACCAGGAGTATTTGAGAAGCATCGGTGGCCACCTGTGT
GGTACCTGAAGGAGGAAGATCATTACAGCGGGCACGGAAGGAGCGTGAGAAGGAGGACTACCTCCACCTCAAGC
GGCAGCCCCAACGGCGTTGGCTCTTCTGGAACAGTCCATCTCCCGCTCTTCTCGGCAGCCTCCTCCTCATCCC
CATCTTCTCCTCGGCTGTGGTCTGAGATGCTGCCACCCTCTTCTGACCCTGTGCTGTTGTCCCCATCCGCCTT
CACCCCTCTGCTCTTCCGCATCACCCATCCACCTTACAGGGACAGGGGGCCACGTAACCAGGACCCAGAGGG
TGGAGCTCTTCTTACCAGCCACCGTGGCTCAGCCAGAGAGGAGCTGAGCCCTGTGGAGCAGAACGGGAACCACCT
GCAGAGGTCCCCAGACCCAAAGCAGGACGGGAGACAACCTGCTTGGAGGAGCGAAGAGCCCTGGCATTATCTCT
GGGTTTGAGAGCCCTAGAGTCAAAGGGAAAGCCTCCAGCCTCCAGGGCTTCTCTGTGTGCTTGGTTGCTGCTC
TGGCCAGGGAGGCAGCCCCACTCCAGCAAGCAGAAGTGATCCTCGAGGGTCTTCCCTGCTTGGCCATATCTTT
CCACCGACGGACTTGAGTGTGTCATTGTTTGTGGGCATTTCCACACGAAGCCTACTCACACCTCACTGGAGA
AGTCAGGGTAGAAATTGAGCCTTCAGAGCCCCAACTCAAGCCTTCTACATCTGGGGTGACGCTGCAAAAGGCCAG
ACGTGGAAGGCCGTGATCCTGCCAGTGTCCCTCCGTCCAGGGGGCTGTGCTGGCACAGACCTGAGAATGGGGA
CACAGGTCATTAGAGCTCCAGGCCTGGAAGCAGTGCTTGGTGGCAACAAGAACTTCTCCCTCACCCCTCC
TTTACCCTCAGATTTGGAGATGGTAACCAAGGAAGCAGCTGGGACAGGTGGAGAAGGAAGTAGGAATGAGTGCA
CGGCGACCCCGTCTCCTCAGGGCCCTCCCTGCTCTGGGTGGCACTGCTTTTATAGGGTGGGGGCAAAATTAG
CAAAAAACAAAAACCAATGACAACCAAACTGAAACCGAAACGAAAAATCAACAACACTCTGTCTCTATCCCTC
CAAAGAATGAAATCAGAAAAAGCCCTGCCTAGCTCACATTTCTATAACAGAGGCCCCCATGATGAGGAGGTG
AAGATTTAGGTTGCAGAATCGACTCCAATGCCTTTTCAAGAAAGGACTCGGCACTTCTCTGACTGCGGAGGCCCTG
ACCCTGCCAGCTGGCTCCGAGGGCAACACAGGGGCTGGCCTCTAGAGGGCTGGTGATTGAGGGGCGGGGCTGG
CGGCAAGAGGGGTTTGGTCTCGGGGCTTAAATGGCACCAGACTCTTGCTTTTGCCCATCTGGAGACTGCAGGCT

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FIGURE 2488B

CCCTTCCTTACCCTCAGAGAGTGCTTATGGTGGGTGTTTTTGC GGGGCTGCAATAGGGGCCAAAAGTCAGGGAAA
GGGGCACTGACCTGTAGTGAAAGGCCACAGGACACAGCCTTATTACTGCTGGGGTGGGATAAGGGGAAGGAGAAG
AGGGAGAAATGGAGCAGGAGGAAAAAGCAGAGTTGGTCTAGAGAGGAGGAGGGCGGGCTGGAGGAATGTGGGGGAT
TGAAACTAGCTCCCAGCCCCCATGGGGCAGCAGCTGGGCCACAATTGCCCTTTCCGTTTTCTAACCCCGACTCA
GATTTACCAACCCACACTCTTTTTAGGTGTAAAAGATGGAGTCCCACGGAGGAGGGGCAGAGCCAGGAGGCAGTG
GGGCTGTGGGCTCAGAGCTCAGGAGTCGCCTTACCTGAGAGAGATGTTCTAGCTGAGAGGGCCTGGCCCTGGGGT
GGGCTCCAGGAAAACGCTGGTTAGGCCTGGGATTGAGCTAACCTGAAACAAAGGTAGTAGGCAGGACCTAATGAC
CAGAGGTTAAATCCTCATCAAGAGAGACCAGGCGGCTGGAGGACAAGCGGCTCTAACCTGGGGGCGGCCATGTT
GTCCAGGCCCAGGCCCCCTCAGGACTGTGGCTGCCTCCCCTCCACGGCCTCCAGGGCGGCTGGCTGGAAAGCCAC
GCGTATGCTGCCCTCTACAGGCTGCTCGGCCTCCCTGCAGCTCAGCGCAGCCCAGGGCTCCAAGTGAGGCCCAGA
AGCCCATGGGCAGGGCTGGGGGGACGAAGGGGAACCCGGAGCACCTCCACTTCTAGGGAAGATGGACAGCGTGG
GGGCACACCTGGGCCTCCCGGAAGCTGTGGACGAAAGGGAGAGCGGGTCTCCAGGGCAAGGGGAACGGGAAATA
GGTCTCCTAGGTGCCTGAAGCGCTGAGCAACCTGGGTACCTGGTGGGGATGCAGGGAAGGCCGGGGCAGAGAAA
GCGAAGGTCGACCCAGGGCTGTAGGAAGCCATAGGAGAGTGACCACGGGATTCCCTGAGAAACAGGGCCGGCCCC
CCAACTTCAGGGACCCACCGCCCATTCGCCGAGAGCTGTCGGAACCAGATGCAACCCGGCAGCCAGAGAACTCT
CCTGGGAGGCTGTGGGTGAGCCAGGCCAACATTGGTGTCCCTGTCCCCAGAGGGAGGAGCAGGCAGGAGAGAGAG
GGGAAGGAGGTATGAATCCCAGTCCCCAGGAACCTAGCTCTTTAACTCTGGGGAGTCGGATTACAGGAAACACCC
CCAGGAGGCCAAGCCTGAAAACAGAGGGGAGGGAGGAAGGAAGGAGTCCCAGCAGGAGCACAGCCCTGGTTTCCT
GTCACTCAGAGCTGATTCACAGGAGGAGGGGAGGTTGGGGGGCGGGAGACAAAACACACCTCTTTTATATAA
GGTTTCATATTTAATTTGGTCATGGATTCAATAATACATAAGTATTTTGAC

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FIGURE 2489

MDSMDYERPNETIKCVVVGDNVAGKTRLICARACNATLTQYQLLATHVPTVWVIDQYRVCQEVLEERSRDVVDD
VSVSLRLWDTFGDHHKDRRFAYGRSDVVVLCFSIANPNLSLHHVKTMMWYPEIKHFCPRAPVILVGCQLDLRYADLE
AVNRARRPLARPIKPNELPPEKGREVAKELGIPYYETSVVAQFGIKDVFDNAIRAALISRRHLQFWKSHLRNVQ
RPLLQAPFLPPKPPPIIIVVPDPPSSSEECPAHLEDPLCADVILVLQERVRIFAHKIYLTSSSKFYDLFLMDL
SEGELGGPSEPGGTHPEDHQGHSDQHSHHHHHHHHGRDFLLRAASFVDCESVDEAGGSGPAGLRASTSDGILRGNG
TGYLEPGRGRVLSSWSRAFVSIQEEMAEDPLTYKSRLMVVVKMDSSIQPGPFRAVLKYLYTGELDENERDLMHIAH
IAELLEVFDLRMMVANIILNNEAFMNQEITKAFHVRRTNRVKECLAKGTFSDVTFILDDGTISAHKPLLISSCDWM
AAMFGGPFVESSTREVVPYTSKSCMRVLEYLYTGMTSSPDLDMDKLIILANRLCLPHLVALTEQYTVTGLME
ATQMMVDIDGDVLVFLAQLAQFHCAQLADWCLHHICTNYYNNVCRKFPRDMKAMSPENQEYFEKHRWPPVWYLKEE
DHYQRARKEREKEDYLHLKRQPKRRWLFWNSSPSSSAASSSSPSSSSAVV

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FIGURE 2490A

GGTCTCAGCTGAGTCTGCTCTGATCACCCAAACAGACCTAGCTCCCCAGCAGAGAGCGGCCCCACAACAAAAGAG
GTCCAGCCCCCTCAGAGGGATTGTGTCCACCTGGACACCATATCTCAGAAGACGGTAGAGATTGCATCTCCTGCAA
ATATGGACAGGACTATAGCACTCACTGGAATGACCTCCTTTTCTGCTTGGCTGCACCAGGTGTGATTCAAGGTGA
AGTGGAGCTAAGTCCCTGCACCACGACCAGAAACACAGTGTGTCAAGTGCAGGAAGGACACCTTCCGGGAAGAAGA
TTCTCCTGAGATGTGCCGGAAGTGCCGCACAGGGTGTCCCAGAGGGATGGTCAAGGTGCGGTGATTGTACACCCTG
GAGTGACATCGAATGTGTCCACAAAGAATCAGGTACAAAGCACAGTGGGGAAGCCCCAGCTGTGGAGGAGACGGT
GACCTCCAGCCCAGGGACTCCTGCCTCTCCCTGTTTCTCTCTCAGGCATCATCATAGGAGTCACAGTTGCAGCCGT
AGTCTTGATTGTGGCTGTGTTTGTGTTTGAAGTCTTTACTGTGGAAGAAAGTCCTTTCCTTACCTGAAAGGCATCTG
CTCAGGTGGTGGTGGGGACCCGTGAGCGTGTGGACAGAAGCTCAACAACGACCTGGGGCTGAGGACAATGTCTCTCAA
TGAGATCGTGAGTATCTTGCAGCCCCACCCAGGTCCCTGAGCAGGAAATGGAAGTCCAGGAGCCAGCAGAGCCAAC
AGGTGTCAACATGTTGTCCCCGGGGAGTCAGAGCATCTGCTGGAACCGGCAGAAGCTGAAAGGTCTCAGAGGAG
GAGGCTGTGTTCCAGCAAAATGAAGGTGATCCCACTGAGACTCTGAGACAGTGTCTCGATGACTTTGCAGACTT
GGTGCCCTTTGACTCCTGGGAGCCGCTCATGAGGAAGTGGGCCCTCATGGACAATGAGATAAAGGTGGCTAAAGC
TGAGGCAGCGGGCCACAGGGACACCTTGTACACGATGCTGATAAAGTGGGTCAACAAAACCGGGCGAGATGCCTC
TGTCCACACCCTGCTGGATGCCTTGGAGACGCTGGGAGAGAGACTTGCCAAGCAGAAGATTGAGGACCACCTTGTT
GAGCTCTGAAAGTTTATGTATCTAGAAGGTAATGCAGACTCTGCCATGTCTTAAGTGTGATTCTCTTCAGGAAG
TCAGACCTTCCCTGGTTTACCTTTTTTCTGGAAGAAAGCCCAACTGGACTCCAGTCAGTAGGAAAGTGCCACAATT
GTCACATGACCGGTACTGGAAGAAACTCTCCCATCCAACATCACCCAGTGGATGGAACATCCTGTAACCTTTTAC
TGCATTGGCATTATTTTTATAAGCTGAATGTGATAATAAGGACACTATGGAATGTCTGGATCATTCCGTTTGT
GCGTACTTTGAGATTTGGTTTGGGATGTCAATGTTTTTACAGCACTTTTTTATCCTAATGTAAATGCTTTATTTA
TTTATTTGGGCTACATTGTAAGATCCATCTACACAGTCTGTTGTCCGACTTCACTTGATACTATATGATATGAACC
TTTTTTGGGTGGGGGGTGCAGGTCAGTTCACTCTGTCTCCAGGCTGGAGTGCAATGGTGCAATCTTGGCTCACT
ATAGCCTTGACCTCTCAGGCTCAAGCGATTCTCCACCTCAGCCATCCAAATAGCTGGGACCACAGGTGTGCACC
ACCACGCCCGGCTAATTTTTTGTATTTTGTCTAGATATAGGGGCTCTCTATGTTGCTCAGGGTGGTCTCGAATTC
CTGGACTCAAGCAGTCTGCCCACCTCAGACTCCCAAAGCGGTGGAATTAGAGGCGTGAGCCCCATGCTTGGCCT
TACCTTTCTACTTTTATAATTCTGTATGTTATTATTTTATGAACATGAAGAACTTTAGTAAATGTACTTGTTTA
CATAGTTATGTGAATAGATTAGATAAACATAAAAGGAGGAGACATACAATGGGGGAAGAAGAAGAAGTCCCCTGT
AAGATGTCACTGTCTGGGTTCAGCCCTCCCTCAGATGTACTTTGGCTTCAATGATTGGCAACTTCTACAGGGG
CAGTCTTTTGAAGTGGACAACCTTACAAGTATATGAGTATTATTTATAGGTAGTTGTTTACATATGAGTCGGGAC
CAAAGAGAAGTGGATCCACGTGAAGTCTGTGTGTGGCTGGTCCCTACCTGGGCAGTCTCATTGACCCATAGC
CCCCATCTATGGACAGGCTGGGACAGAGGCAGATGGGTTAGATCACACATAACAATAGGGTCTATGTATATCCC
AAGTGAACCTTGAGCCCTGTTTGGGCTCAGGAGATAGAAGACAAAATCTGTCTCCACGCTGCTGCTGCTGCTGCT
GGGGAAGAGTAGATGGTGTGTTGAGAATGGTGTGAAATGGTGGCCATCTCAGGAGTAGATGGCCCGGCTCACTTCT
GGTTATCTGTCAACCTGAGCCCATGAGCTGCCCTTTAGGGTACAGATTGCCTACTTGAGGACCTTGCCCGCTCTG
TAAGCATCTGACTCATCTCAGAAATGTCAATTCTTAAACACTGTGGCAACAGGACCTAGAATGGCTGACGCATTA
AGGTTTTCTTCTGTGTCTGTTCTATTATTGTTTAAAGACCTCAGTAACCATTTCAGCCTCTTTCCAGCAAACC
CTTCTCCATAGTATTTTCACTCATGGAAGGATCATTATGTCAGGTAGTCATTCCAGGAGTTTTTGGTCTTTCTGT
CTCAAGGCATTGTGTGTTTTGTTCCGGGACTGGTTTGGGTGGGACAAAGTTAGAATTGCCTGAAGATCACACATT
CAGACTGTTGTGTCTGTGGAGTTTtaggagTGGGGGTGACCTTTCTGGTCTTTGCACTTCCATCCTCTCCCACT
TCCATCTGGCATCCACGCGTTGTCCCCTGCACTTCTGGAAGGCACAGGGTGTGCTGCTGCTGCTGCTGCTGCTGCT
TTGCTGGGCTTCTGTGACAGGACGCTCAGCCTCAGGGCTCAGAAGGTGCCAGTCCGGTCCCAGGTCCCTGTGCTC
TTCCACAGAGGCCTTCTAGAAATGCATCTAGAGTGTGAGCCTTATCAGTGTGTTAAGATTTTTCTTTTATTTT
AATTTTTTTGAGACAGAATCTCACTCTCTCGCCAGGCTGGAGTGCAACGGTACGATCTTGGCTCAGTGCAACCT
CCGCTCCTGGGTTCAGCGATTCTCGTGCCTCAGCCTCCGGAGTAGCTGGGATTGCAGGCACCCGCCACACGC
CTGGCTAATTTTTGTATTTTTAGTAGAGACGGGTTTACCATGTTGGTCAGGCTGGTCTCGAATCCTGACCTC
AGGTGATCCACCTTGGCCTCCGAAAGTGTGGGATTACAGGCGTGAGCCACCAGCCAGGCCAAGCTATCTTTTA
AAGTAAGCTTCTTGACGACATGAAATAATTGGGGGTTTTGTTGTTTAGTTACATTAGGCTTTGCTATATCCCCAG
GCCAAATAGCATGTGACACAGGACAGCCATAGTATAGTGTGCTCACTCGTGGTGGTGTCTTTTATGCTTCTGCT

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FIGURE 2490B

CTGTCAAAGGTCCCTATTTGAAATGTGTTATAATACAAACAAGGAAGCACATTGTGTACAAAATACTTATGTATT
TATGAATCCATGACCAAATTAAATATGAAACCTTATAT

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FIGURE 2491

CGGACGCGTGGGCAGGCAGCAGCCGGGCAGGGATGCTCCTGCGCTCCCGGGCGGCCTCGGGCCCAGCCACCTGCT
CGCCGGGGAAGAGGACACGCAGAGGAGCAGCTGGCTTGCCCGGAGTCTCCACCTTGACCCAAGCATGCAGGGC
CCACCCCGCAGCCTCCGCGCTGGGCTCAGCCTGGACGACTTCATCCCTGGCCACCTCCAGTCCCACATAGGGTCT
TCTCCCGGGGGACACGGGTGCCCGTGATCCGGAATGGTGGCTCCAACACCCTTAATTTCAGTTCCACGACCCC
GCGCCCAGGACTGTGTGCAATGGGGGCTACACACCAAGACGAGATGCTTCCAGCACCCGGACCCTGCGTGGTAT
CAGACCTGGCCAGGCCCTGGGAGCAAGCCCTCTGCAAGCACAAAGATCCCTGCCTCCAGCACACCCAGAACTGG
TCAGCCACGTGGACCAAGGACAGCAAGCGTCGGGACAAGCGCTGGGTCAAGTACGAGGGAATCGGGCCCGTGGAC
GAGAGCGGCATGCCCATTTGCCCCCGATCCAGCGTTGACAGACCCAGAGACTGGTACCGGAGAATGTTCCAGCAG
ATTCACCGGAAAATGCCAGACTTGACAGCTGGACTGGACCTTCGAGGAGCCACCCAGAGACCCAGGCATCTAGGA
GCCCAGCAAAGACCTGCCCACAGGCCCGGGCCCGGAACATCTTCCAGTGGAAGAAGCTGGGACCACTCTGAAGAG
TTACCTAGAAGCACCTTCAACTACAGACCTGGAGCATTCTCCACTGTGCTGCAGCCCTCAAATCAGGTGCTCAGA
CGCCGGGAAAAAGTAGACAATGTCTGGACGGAAGAGTCTTGAACCAGTTTCTGCAGGAACTAGAGACTGGGCAG
AGGCCCAAGAAACCGCTGGTGGACGACCCTGGTGAGAAGCCCTCCAGCCCATTTGAGGTGCTGCTGGAGAGAGAG
CTGGCCGAGCTGAGCGCCGAGCTGGACAAGGACCTGCGGGCAATTGAGACCCGACTGCCGTCCCCAAGAGCTCG
CCGGCGCCCCGACGGGCCCCGGAGCAGCGGCCCGGGCCGGCCCTCAGCCTGGAGCTCCAGCTACCCACAT
GCACCTTACCTGGGTTCGCCCCGGTCCCTGAGTCCCCACAAAATGGCTGATGGAGGAAGCCCCCTTCCTAGGTGCG
AGGGACTTTGTCTACCCCTTCCTCAACCCGAGACCCTAGTGCTCTAACGGAGGGGGCAGCCCAGCCAGGAGGGAA
GAGAAGAAGAGAAAGGCCGCCAGGCTCAAGTTTGACTTCCAGGCGCAGTCCCCAAGGAGCTGACTCTGCAGAAG
GGTGACATTGTCTACATCCACAAGGAGGTGGACAAGAACTGGCTGGAGGGAGAGCACCACGGCCGCTGGGCATC
TTCCCTGCTAATTATGTGGAGGTGCTGCCCCGAGATGAGATCCCTAAGCCCATCAAGCCCCGACCTACCAGGTG
CTGGAGTATGGAGAGGCTGTGGCCAGTACACCTCAAGGGGGACCTGGAGGTGGAGCTGTCTTCCGCAAGGGA
GAGCACATCTGCCTGATCCGCAAGGTGAACGAGAAGTGGTACGAGGGACGCATCAGGGCAGGGGGCGCCAAGGC
ATATTCCTGCCAGCTACGTGCAGGTGTCTCGTGAACCCCGGCTCCGGCTCTGTGACGACGGCCCCCAGCTCCCC
ACGTCTCCCCGCTGACCGCTGCCGCCCGCTCAGCCCGTCACCCAGCTCCCCCTCAGCCCTGCGCAGCCAGCT
GACCCACCGACTTGGGGGGACAGACCTCCCCCGTCGCACTGGCTTCTCCTTCCCCACCCAGGAGCCTAGACCC
CAGACCCAGAATCTTGGCACCCCTGGTCCAGCTCTGTCCACTCTCGAGGTCCAGCCATCCCCTGGACCTGGGG
ACCTCCTCTCCTAACACCTCTCAGATACACTGGACCCCGTACCGGGCGATGTACCAGTACAGGCCCCAGAACGAA
GACGAGCTGGAGCTGCGCGAGGGGGACAGGGTGGATGTATGCAGCAGTGTGACGATGGCTGGTTTGTGGGTGTC
TCCCGGAGGACCCAGAAATTCGGAACGTTCCCTGGAAATTACGTTGCCCCGGTTGAGTGGTCTCCATGGCAACT
TGGAGCCAGCCAGGATGGGGTGGGGAGCGGTGGCACTCGTGGGAGGGAGAGGACCCCCGCCACATCCTCCTTCC
CCAGGACCTGAGCTCCCAGCATCTGCAGACGACCCCGCAGCATTTCCTCGGACCCCCCTCGAAGCCCCCTGGA
CTGATTCCCACCCACGACTCACAGGCATTCTCCACAGCCCTTTCATTCTCTCCCAACCCACTCCCCAAATAC
AGAGGTCTGCTTTGAAGCGGAGACCATTTCCAGGCCTTATTGAGACCAGACCCCAAGTCCCCACCCCATCCTG
CTCCAGCGTTTCTCTAACAGGGACAGCTCTCCGCTTTGCCCCACGGGGTTCTCTAACAGAAACAGCTTCC
TAGCCTCGTAGAGACCAAAGGCCGCCCGCTGCTGGGGTTCTCCAGCACCCAGCTTGCTGGCTGCCCTCT
TTGCCTTCTGGCCTCCAGCTGGGTGTGGGGGGGCGAGCAAGGCGGGGACAGACGACGACCTTCTTAGCGATC
TAGGCCTGGCAAGAGCTCTGGCCCCAAGGCCTCTCTTCCAGGGGCTGCCAAGTCTTGGCCCTGGCCCTGGCAT
ATCACCCGCACTGTGGGGCCAGGCACCACTAGCCTGGCTCAAATATTCCCCAGGGAGACTGCTGTGTGCTGCC
GCCTGCCTGCTGGCTCTCCCCAGCCCCACATCCCTCTGGAAGAGAATGTAAAATAAACCTGGACACAAGGGCC
TTCGTGGCCTCGA

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FIGURE 2492

MQGPFRSLRAGLSLDDFIPGHLQSHIGSSSRGTRVPVIRNGGSNTLNFQFHDPAPRTVCNGGYTPRRDASQHPDP
AWYQTWPGPGSKPSASTKIPASQHTQNWSATWTKDSKRRDKRWVKYEGIGPVDESGMPIAPRSSVDRPRDWYRRM
FQOIHRKMPDLQLDWTFEPPRPDPRHLGAQQRPAHRPGPATSSSGRSWDHSEELPRSTFNYPGAFSTVLQPSNQ
VLRREKVDNVWTEESWNQFLQELETGQRPKKPLVDDPGKPSQPIEVLLERELAELSAELDKDLRAIETRLPSP
KSSPAPRRAPRPPAGPASAWSSSYPHAPYLGSARSLSPHKMADGGSPFLGRRDFVYPSSTRDPSASNGGGSPA
RREEKKRKAARLKFDFAQSPKELTLQKGDIVYIHKEVDKNWLEGEHHGRLGIFPANYVEVLPAD EIPKPIKPPT
YQVLEYGEAVAQYTFKGDLEVELSFRKGEHICLIRKVNENWYEGRITGTGRQGIFPASYVQVSREPRRLRLCDDGP
QLPTSPRLTAAARSARHPSSPSALRSPADPTDLGGQTSRRTGFSFPTQEPRPQTQNLGTPGPALSHSRGPSHPL
DLGTSSPNTSQIHWTPIRAMYQYRPQNEDELELREGDRVDVMQCCDDGWFGVSRRTQKFGTFPGNYVAPV

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FIGURE 2493

ACTTCCGCCCGGCGCGGAGACCGAAGGCTGGCGGCTGGTCGCGTTGCAGGCAACATGTCGGAAGGAAACGCCGCC
GGCGAGCCAGCACGCCGGGAGGGCCCCGACCTCTCCTGACTGGGGCCCCGGGGGCTCATCGGGCGGCGGCCGGCG
CCTCCCCCTACCCCCGGCGCCTTCCCTCCATCCGTTCCAGGGACCTCACCTCGGGGGAGTCAAGAAGAAAAC
TTCACCCCAAATATCATCAGTCGGAAGATCAAGGAAGAGCCCAAGGAAGAAGTAACTGTCAAGAAGGAGAAGCGT
GAAAGGGACAGAGACCGACAACGAGAGGGGCATGGACGAGGGCGAGGCCGTCCAGAAGTGATCCAGTCTCACTCC
ATCTTTGAGCAGGGCCAGCTGAAATGATGAAGAAAAAAGGGAAGTGGGATAAGACAGTGGATGTGTGACACATG
GGACCTTCTCATATCATCAACATCAAAAAAGAGAAGAGAGACAGACGAAGAACTAAACAGATCTTGCGTATG
CTGGAGAAGGACGATTTCTCGATGACCCCGCCTGAGGAACGACACTCGAAATATGCCTGTGCAGCTGCCGCTG
GCTCACTCAGGATGGCTTTTAAAGGAAGAAAATGACGAACCAGATGTTAAACCTTGGCTGGCTGGCCCCAAGGAA
GAGGACATGGAGGTGGACATACCTGCTGTGAAAGTGAAAGAGGAGCCACGAGATGAGGAGGAAGAGGCCAAGATG
AAGGCTCCTCCCAAAGCAGCCAGGAAGACTCCAGGCCTCCCGAAGGATGTATCTGTGGCAGAGCTGCTGAGGGAG
CTGAGCCTCACCAAGGAAGAGGAAGTGTGTTTCTGCAGCTGCCAGACACCTCCCTGGCCAGCCACCCACCCAG
GACATCAAGCCTATCAAGACAGAGGTGCAGGGCGAGGACGGACAGGTGGTGCTCATCAAGCAGGAGAAAGACCGA
GAAGCCAAATTGGCAGAGAATGCTTGTACCTGGCTGACCTGACAGAGGGTCAGGTTGGCAAGCTACTCATCCGC
AAGTCTGGAAGGGTGCAACTCCTCTTGGGCAAGGTGACTCTGGACGTGACCATGGGAAGTGCCTGCTCCTTCTG
CAGGAGCTGGTGTCCTGGGCCTTGGAGACAGTAGGACAGGGGAGATGACAGTCTGGGACACGTGAAGCACAAA
CTTGTAATGTTCCCTGATTTTGAATCCCTCTTGGATCACAACACCGGTAAAATGAGCAGGTGGAGGAGGACGGC
GCCTGTGCCCCAGGCTGCTGCCTGCTCCAGACATTTTGTCTTGAATCTGTGAGACCCAGAAGGGGGCCCACTGAG
CCCACTCACTCCAGCCTTTGGCAACCATTGTTCCAGGTCCCCAGGGCTTCTCCACAGCAGCTGTGAATGGCA
CAGTGACCTTCTGTCAGCGTGGAGATGGCACATCCTTGCTGCTGGGGACTTGGCCCTGCTATTTATTTTGTATT
TATGCTTAATCTCTTCCACTGATGCATCCTCCAAGGGTAGATGGGGAGGGTCTGTGTGAAGGGGCCGGCTTCTC
TTGGTGCTGCTGGGTTGCAGGGGCAGGAAGCGTGTGGACTGCAGCTTCTGCTGGTGCTCCCCCGTCTCCTGG
AGGCAGTATAGGAGAGAGAGCAAGGATTGAGTCTGAGACTTAAGCACTCGGTCCCAGCTTGCCAGTTCTCTGGTTC
TGTGTCCTTGGACAACTACCTAACCTTTCTGAGCCTCCTATACCTCATCCGACACAAATGGGGATGATACCTAC
CTCCAGGGTTGGCGTGAGGATTCATGGGCTATTATAGATGAAAAGTGCACAAGGCCAGAACAGCAGGCACTCAA
TAAACGTTTCATGTCCTTTTCTCT

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FIGURE 2494

MSEGNAAGEPSTPGGPRPLLTGARGLIGRRPAPPLTPGRLPSIRSRDLTLGGVKKKTFTPNIISRKIKEEPKEEV
TVKKEKRERDRDRQREGHGRGRGRPEVIQSHSIFEQGAEMMKKGNWDKTVDVSDMGPSHIINIKKEKRETDEE
TKQILRMLEKDDFLDDPGLRNDTRNMPVQLPLAHSGWLFKEENDEPDVKPWLAGEPKEEDMEVDIPAVKVKEEPRD
EEEEAKMKAPPKAARKTPGLPKDVSVAELLRELSLTKEEELLFLQLPDTLPGQPPTQDIKPIKTEVQGEDGQVVL
IKQEKDREAKLAENACTLADLTEGQVGKLLIRKSGRVQLLLGKVTLDTMTGTACSFLQELVSVGLGDSRTGEMTV
LGHVKHKLVCSPDFESLLDHKHR

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FIGURE 2495

GCCGCTTCCCTCGCCGCCGCCCGCCAGCATGCCCGGCGTGCCCCGCCTGCCGCTGCTGCTCGGGCTGCTGCTGC
TCCCGCGTCCCGGCCCGGCCGCTGGACTTGCCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCC
TCAACTACAAAGACCCCTGCAAGGCGGCTGCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCT
TCCAGGTACAGCAGGCTGTGGATCTCAGACGGCACACAGCTCGTAAGTCCTCCATCAAAGCTGCAGTTCCAGGAA
ACACTTCTACCCCCAGCTGCCAGAGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGAT
CCCGTAGCCGGCGGGCGGCGACGTCCCGACCAGAGCGTGTGTGGCCCCGATGGGGTCATCCCCTTTGTTCATTGGGG
GAACTTCACTGGTAGCCAGAGGGCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTACCT
TCCTGGAGCGCACTGACGAGGACAGCTATATTGTGTTACCTATCGACCTTGCGGGTGCTGCTCCTACGTGGGTC
GCCGCGGCGGGGGCCCCCAGGCCATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGG
GCCACGTGCTCGGCTTCTGGCACGAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTCTGTGAGAACA
TCCAGCCAGGGCAGGAGTATAACTTCCCTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACT
TCGACAGCATCATGCATTACGCTCGGAACACATTCTCCAGGGGCATCTTCTGGATAACATTGTCCCCAAGTATG
AGGTGAACGGGGTGAACTCCCATTTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCCGCAAGC
TTTACAAGTGCCAGCCTGTGGAGAGACCTGCAAGACAGCACAGGCAACTTCTCTCCCCTGAATACCCCAATG
GCTACTCTGCTCACATGCACTGCGTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCTGAACCTTACGT
CCCTGGACCTGTACCGCAGCCGCCTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGC
CCCPCCGAGGCGCTTCTGCGGGTCCAACTCCCTGAGCCTATCGTCTCCACTGACAGCCGCCTCTGGGTTGAAT
TCCGCAGCAGCAGCAATTGGGTTGAAAGGGCTTCTTTGCAGTCTACGAAGCCATCTGCGGGGGTGATGTGAAAA
AGGACTATGGCCACATTCAATCGCCCACTACCCAGACGATTACCGGCCAGCAAAGTCTGCATCTGGCGGATCC
AGGTGTCTGAGGGCTTCCACGTGGGCCTCACATTCCAGTCCCTTTGAGATTGAGCGCCACGACAGCTGTGCCTACG
ACTATCTGGAGGTGCGCGACGGGCACAGTGAGAGCAGCACCCCTCATCGGGCGCTACTGTGGCTATGAGAAGCCTG
ATGACATCAAGAGCACGTCCAGCCGCCTCTGGCTCAAGTTCGTCTCTGACGGGTCCATTAACAAAGCGGGCTTTG
CCGTCAACTTTTTCAAAGAGGTGGACGAGTGCTCTCGGCCCAACCGCGGGGGCTGTGAGCAGCGGTGCCTCAACA
CCCTGGGCAGCTACAAGTGCACTGTGACCCCGGGTACGAGCTGGCCCCAGACAAGCGCCGCTGTGAGGCTGCTT
GTGGCGGATTCTCACCAAGCTCAACGGCTCCATCACCAGCCCGGGCTGGCCCAAGGAGTACCCCCCAACAAGA
ACTGCATCTGGCAGCTGGTGGCCCCCACCAGTACCGCATCTCCCTGCAGTTTGACTTCTTTGAGACAGAGGGCA
ATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGCTGACTCCAAGCTGCATGGCAAGTTCT
GTGGTTCTGAGAAGCCCCGAGGTATCACCTCCAGTACAACAACATGCGCGTGGAGTTCAAGTCCGACAACCCG
TGTCAAAAAGGGCTTCAAGGCCCCTTCTCTCAGAAAAGAGGCCAGCTCTGCAGCCCCCTCGGGGACGCCCCC
ACCAGCTCAAATTCCGAGTGCAAAAAGAAACCGGACCCCCCAGTAGAGGCCTGCCAGGCCTCCCGGACCCCTTGT
TACTCAGGAACCTCACCTTGGACGGAATGGGATGGGGGCTTCGGTGCCACCAACCCCCCACCCTCACTCTGCCA
TTCCGGCCCCACCTCCCTCTGGCCGGACAGAAGTGGTGCTCTCTCTCCCCACTGTGCCCCGTCCGCGGACCGGGGA
CCCTTCCCCGTGCCCTACCCCTCCCATTTGATGGTGTCTGTGACATTTCTGTGTGAAGTAAAAGAGGGACC
CCTGCGTCTCTGC

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FIGURE 2496

MPGVARLPLLLGLLLLPRPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDEEDLRAFQVQQAVDLR
RHTARKSSIKAAVPGNTSTPSCQSTNGQPQRGACGRWRGRSRSRRAATSRPERVWPDGVIPFVIGGNETGSQRAV
FRQAMRHWEKHTCVTFLERTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNCDKFGIVVHELGHVVGFWHEH
TRPDRDRHVSIVRENIQPGQEYNFLKMEPQEVESLGETYDFDSIMHYARNTFSRGIFLDTIVPKYEVNGVKPPIG
QRTLKSGDIAQARKLYKCPACGETLQDSTGNFSSPEYPNGYSAHMCVWRISVTPGEKIIILNFTSLDLYRSRLC
WYDYVEVRDGFWRKAPLRGRFCGSKLPEPIVSTDSRLWVEFRSSSNWVGKGFFAVYEAICGGDVKKDYGHIQSPN
YPDDYRPSKVCIWRIQVSEGFHVGLTFQSFEIERHDSACAYDYLEVRDGHSESSTLIGRYCGYEKPDDIKSTSSRL
WLKFVSDGSINKAGFAVNFFKEVDECSRPNRGGCEQRCLNTLGSYKSCDPGYELAPDKRRCEAACGGFLTKLNG
SITSPGWPKEYPPNKNCIWQLVAPTQYRISLQDFEFETEGNDVCKYDFVEVRSGLTADSKLHGKFCGSEKPEVIT
SQYNNMRVEFKSDNTVSKKGFKAHFFSEKRPALQPPRGRPHQLKFRVQKRNRTPQ

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FIGURE 2497

GCCGCTTCCCTCGCCGCCGCCCGCCAGCATGCCCGGCGTGGCCCCGCTGCCGCTGCTGCTCGGGCTGCTGCTGC
TCCCGCGTCCCGGCCCGCCGCTGGACTTGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCC
TCAACTACAAAGACCCCTGCAAGGCGGCTGCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCT
TCCAGGTACAGCAGGCTGTGGATCTCAGACGGCACACAGCTCGTAAGTCCTCCATCAAAGCTGCAGTTCCAGGAA
ACACTTCTACCCCCAGCTGCCAGAGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGAT
CCCGTAGCCGGCGGGCGGCGACGTCCCGACCAGAGCGTGTGTGGCCCCGATGGGGTCATCCCCCTTTGTCATTGGGG
GAAACTTCACTGGTAGCCAGAGGGCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTACCT
TCCTGGAGCGCACTGACGAGGACAGCTATATTGTGTTACCTATCGACCTTGCGGGTGCTGCTCCTACGTGGGTG
GCCGCGGCGGGGGCCCCAGGCCATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGG
GCCACGTGCTCGGCTTCTGGCACGAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTCTGTGAGAACA
TCCAGCCAGGGCAGGAGTATAACTTCTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACT
TCGACAGCATCATGCATTACGCTCGGAACACATTCTCCAGGGGCATCTTCTGGATACCATTTGCCCCAAGTATG
AGGTGAACGGGGTGAACTTCCATTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCCGAAGC
TTTACAAGTGCCAGCCTGTGGAGAGACCTGCAAGACAGCACAGGCAACTTCTCTCCCCTGAATACCCCCAATG
GCTACTCTGCTCACATGCACTGCGTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCTGAACCTTACGT
CCCTGGACCTGTACCGCAGCCGCTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGC
CCCTCCGAGGCCGCTTCTGCGGGTCCAACTCCCTGAGCCTATCGTCTCCACTGACAGCCGCTCTGGGTGAAT
TCCGCAGCAGCAGCAATTGGGTGGAAAGGGCTTCTTTGCAGTCTACGAAGCCATCTGCGGGGGTGATGTGAAAA
AGGACTATGGCCACATTCAATCGCCCACTACCCAGACGATTACCGGGCCAGCAAAGTCTGCATCTGGCGGATCC
AGGTGTCTGAGGGCTTCCAGTGGGCCTCACATTCCAGTCCCTTGAGATTGAGCGCCACGACAGCTGTGCCTACG
ACTATCTGGAGGTGCGCGACGGGCACAGTGAGAGCAGACCCCTCATCGGGCGCTACTGTGGCTATGAGAAGCCTG
ATGACATCAAGAGCAGTCCAGCCGCTCTGGCTCAAGTTCGTCTCTGACGGGTCCATTAAACAAAGCGGGCTTTG
CCGTCAACTTTTTCAAAGAGGTGGACGAGTGCTCTCGGCCAACCGCGGGGGCTGTGAGCAGCGGTGCCTCAACA
CCCTGGGCAGCTACAAGTGCAGCTGTGACCCCGGGTACGAGCTGGCCCCAGACAAGCGCCGCTGTGAGGCTGCTT
GTGGCGGATTCTCACCAAGCTCAACGGCTCCATCACAGCCCGGGCTGGCCCAAGGAGTACCCCCCAACAAGA
ACTGCATCTGGCAGCTGGTGGCCCCCACCAGTACCGCATCTCCCTGCAGTTTGACTTCTTTGAGACAGAGGGCA
ATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGCTGACTCCAAGCTGCATGGCAAGTTCT
GTGGTTCTGAGAAGCCCGAGGTATCACCTCCAGTACAACAACATGCGCGTGGAGTTCAAGTCCGACAACACCG
TGTCAAAAAGGGCTTCAAGGCCCACTTCTTCTCAGTCTTGAGGGGGCAGGGGACCGACACTCACATCTATCAG
GCCTGGAGTTACTGCTCTGCCCCCATGCCCTGGTGCACACTGTGCCCCGCCACCCCTCAGCCCTGCACGGAGACA
CACACGCCCACACGCACACACATGTGCACACATTGCCCATCGCACAAGAACTGCAGAGGACCCCCACTGG
GGGCATCGAGGCTCAGCCCTCAGGGCCCGGGGCATCTGACTCTGGCCCCCAGGAGGGGAGCTATTTGGACTTTT
GGGACACCCACCGAGGAGACCCTAAGCCAAGAAGGAGAAGAAAGAGCCTGAAGACCTTCAGTCTGACCCCTGCCA
CCTTCCGGGGCATTGAGGCACTGTAGGAAAAGAGGCCAGCTCTGCAGCCCCCTCGGGGACGCCCCCACCAGCTCA
AATTCCGAGTGCAAAAAGAAACCGGACCCCCAGTGAGGCCTGCCAGGCCTCCCGGACCCCTTGTACTCAGGA
ACCTCACCTTGGACGGAATGGGATGGGGGCTTCGGTGCCACCAACCCCCACCTCCACTCTGCCATTCCGGCCCC
ACCTCCCTCTGGCCGGACAGAACTGGTGCTCTCTTCTCCCCACTGTGCCCGTCCGCGGACCGGGGACCCCTCCCC
GTGCCCTACCCCTCCCATTTTGATGGTGTCTGTGACATTTCTGTTGTGAAGTAAAAGAGGGACCCCTGCGTCC
TGC

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FIGURE 2498

MPGVARLP L L L L L L L L L L P R P G R P L D L A D Y T Y D L A E E D D S E P L N Y K D P C K A A F L G D I A L D E E D L R A F Q V Q Q A V D L R
R H T A R K S S I K A A V P G N T S T P S C Q S T N G Q P Q R G A C G R W R G R S R S R R A A T S R P E R V W P D G V I P F V I G N F T G S Q R A V
F R Q A M R H W E K H T C V T F L E R T D E D S Y I V F T Y R P C G C C S Y V G R R G G G P Q A I S I G K N C D K F G I V V H E L G H V V G F W H E H
T R P D R D R H V S I V R E N I Q P G Q E Y N F L K M E P Q E V E S L G E T Y D F D S I M H Y A R N T F S R G I F L D T I V P K Y E V N G V K P P I G
Q R T R L S K G D I A Q A R K L Y K C P A C G E T L Q D S T G N F S S P E Y P N G Y S A H M H C V W R I S V T P G E K I I L N F T S L D L Y R S R L C
W Y D Y V E V R D G F W R K A P L R G R F C G S K L P E P I V S T D S R L W V E F R S S S N W V G K G F F A V Y E A I C G G D V K K D Y G H I Q S P N
Y P D D Y R P S K V C I W R I Q V S E G F H V G L T F Q S F E I E R H D S C A Y D Y L E V R D G H S E S T L I G R Y C G Y E K P D D I K S T S S R L
W L K F V S D G S I N K A G F A V N F F K E V D E C S R P N R G G C E Q R C L N T L G S Y K C S C D P G Y E L A P D K R R C E A A C G G F L T K L N G
S I T S P G W P K E Y P P N K N C I W Q L V A P T Q Y R I S L Q F D F F E T E G N D V C K Y D F V E V R S G L T A D S K L H G K F C G S E K P E V I T
S Q Y N N M R V E F K S D N T V S K K G F K A H F F S V L E G A G D R H S H L S G L E L L L C P H A L V D T V P A P P S A L H G D T H A H T H T H V H
T H C P I A Q E T C R G P P L G A S R L S P Q G P G H L T L A P Q E G S Y L D F W D T H R G D P K P R R R R K S I K T F S L T P A T F R G I W A L

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FIGURE 2499

GCCAGCATGCCCCGGCGTGGCCCCGCTGCCGCTGCTGCTCGGGCTGCTGCTGCTCCCGCGTCCCCGGCCGGCCGCTG
GACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCCCACTACAAGACCCCTGCAAG
GCGGCTGCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCTTCCAGGTACAGCAGGCTGTGGAT
CTCAGACGGCACACAGCTCGTAAGTCTCCATCAAAGCTGCAGTTCCAGGAAACACTTCTACCCCCAGCTGCCAG
AGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGATCCCGTAGCCGGCGGGCGGCGACG
TCCCGACCAAGAGCGTGTGTGGCCCGATGGGGTCATCCCCCTTGTTCATTGGGGGAAACTTCACTGGTAGCCAGAGG
GCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTACCTTCCTGGAGCGCACTGACGAGGAC
AGCTATATTGTGTTCACCTATCGACCTTGGCGGTGCTGCTCCTACGTGGGTGCGCGCGGGGGGGCCCCAGGCC
ATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGGGCCACGTGCTCGGCTTCTGGCAC
GAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTCGTGAGAATCCAGCCAGGGCAGGAGTATAAC
TTCTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACTTCGACAGCATCATGCATTACGCT
CGGAACACATTCTCCAGGGGCATCTTCTGGATACCATTGTCCCCAAGTATGAGGTGAACGGGGTGAAACCTCCC
ATTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCGCAAGCTTTACAAGTGCCAGCCTGTGGA
GAGACCCTGCAAGACAGCACAGGCAACTTCTCCTCCCCGTGAATACCCCAATGGCTACTCTGCTCATATGCACTGC
GTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCTGAACCTTCACGTCCCTGGACCTGTACCGCAGCCGC
CTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGCCCTCCGAGGCCGCTTCTGCGGG
TCCAAACTCCCTGAGCCTATCGTCTCCACTGACAGCCGCTCTGGGTTGAATTCCGCAGCAGCAGCAATTGGGTT
GGAAAGGGCTTCTTTGCAGTCTACGAAGCCATCTGCGGGGGTGATGTGAAAAAGGACTATGGCCACATTCAATCG
CCCAACTACCCAGACGATTACCGGCCAGCAAAGTCTGCATCTGGCGGATCCAGGTGTCTGAGGGCTTCCACGTG
GGCTCACATTCCAGTCCCTTTGAGATTGAGCGCCACGACAGCTGTGCCTACGACTATCTGGAGGTGCGCGACGGG
CACAGTGAGAGCAGCACCCCTCATCGGGCGCTACTGTGGCTATGAGAAGCCTGATGACATCAAGAGCACGTCCAGC
CGCTCTGGCTCAAGTTCGTCTCTGACGGGTCCATTAAACAAAGCGGGCTTTGCCGTCAACTTTTCAAAGAGGTG
GACGAGTGCTCTCGGCCCAACCGCGGGGCTGTGAGCAGCGGTGCCTCAACACCCTGGGCAGCTACAAGTGCAGC
TGTGACCCCGGTACGAGCTGGCCCCAGACAAGCGCCGCTGTGAGGGGTGTTATGATCTACAGGTGGGAAACCC
CTGTTGTGGGACAGACACTGTTTCCGCCCTCTCCACGCATGGTCCCAGATGCTGGGGACAGCACTCCGAGGCTAA

TGGCTCCAGCTCACTAGGCCGATCCTGCTGTGCCCCGAGCTGCTCCCTTTCCTGCACCTCCCAGGACCGCCCCCT
CCCTGAAGTGTCTTCCCTGAGTCCCTTATCCCGCTCACTCCCTCTTGGAGGACCTTGGCCTGTTCAATTGCAGA
GAAGATAGAAATGGCCACACTTATGACCCCTTAGCTCCCCCACTCCTCCCTACAGGCCACCCCTGAGGACACCC
AGGCCACCCCTGCCTCCTCCCGTCCGCCCCAGAGGGACACAGGTCCCTGAGCCTTGGGGAGTCCACAGGCT
CCCCATCTTCTCCTTACTGCATCTCAGCCACATCTCAGCCCTTCCCCATGGCAGGGGCTCCCCGCAGACGATGC
CACCTTCCTTGTCCCCGAGCTGCTTGTGGCGGATTCTCACCAGCTCAACGGCTCCATACCAGCCCCGGGCTG
GCCCAAGGAGTACCCCCCAACAAGAACTGCATCTGGCAGCTGGTGGCCCCCACCAGTACCGCATCTCCCTGCA
GTTTGACTTCTTTGAGACAGAGGGCAATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGC
TGACTCCAAGCTGCATGGCAAGTTCTGTGTTCTGAGAAGCCCGAGGTATCACCTCCAGTACAACAACATGCG
CGTGGAGTTCAAGTCCGACAACACCGTGTCCAAAAGGGCTTCAAGGCCCACTTCTTCTCAGAAAAGAGGCCAGC
TCTGCAGCCCCCTCGGGGACGCCCCACCAGCTCAAATTCGAGTGCAGAAAAGAAACCGGACCCCCAG

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FIGURE 2500

MPGVARLP LLLGLLLLPRGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDEEDLRAFQVQQAVDLR
RHTARKSSIKAAVPGNTSTPSCQSTNGQPQRGACGRWRGRSRSRRAATSRPERVWPDGVIPFVIGGNFTGSQRAV
FRQAMRHWEKHTCVTFLERTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNCDKFGIIVVHELGHVVGFWHEH
TRPDRDRHVSIVRENIQPGQEYNFLKMEPQEVESLGETYDFDSIMHYARNTFSRGIFLDTIVPKYEVNGVKPPIG
QRTLSKGDIAQARKLYKCPACGETLQDSTGNFSSPEYPNGYSAHMHCVWRISVTPGEKIILNFTSLDLYRSRLC
WYDYVEVRDGFWRKAPLRGRFCGSKLPEPIVSTDSRLWVEFRSSSNWVGKGGFAVYEAICGGDVKKDYGHIQSPN
YPDDYRPSKVCIWRIQVSEGFHVGLTFQSFEIERHDSACAYDYLEVRDGHSESSTLIGRYCGYEKPDDIKSTSSRL
WLKFVSDGSINKAGFAVNFFKEVDECSRPNRGGCEQRCLNTLGSYKCSDDPGYELAPDKRRCGECYDLQVGKPLL
WDRHCFRLSTHGPEMLGTALRG

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FIGURE 2501

GCCAGCATGCCCCGGCGTGGCCCCGCTGCCGCTGCTGCTCGGGCTGCTGCTGCTCCCCGCGTCCCCGGCCGGCCGCTG
GACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCCCTCAACTACAAAGACCCCTGCAAG
GCGGCTGCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCTTCCAGGTACAGCAGGCTGTGGAT
CTCAGACGGCACACAGCTCGTAAGTCTCCATCAAAGCTGCAGTTCCAGGAAACACTTCTACCCCCAGCTGCCAG
AGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGATCCCGTAGCCGGCGGGCGGCGACG
TCCCGACCAGAGCGTGTGTGGCCCGATGGGGTCATCCCCTTTGTCAATTGGGGGAAACTTCACTGGTAGCCAGAGG
GCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTACCTTCCCTGGAGCGCACTGACGAGGAC
AGCTATATTGTGTTACCTATCGACCTTGCGGGTGCTGCTCCTACGTGGGTGCGCCGCGGGGGGGCCCCAGGCC
ATCTCCATCGGCAAGAACTGTGACAAAGTTCCGGCATTGTGGTCCACGAGCTGGGCCACGTCGTCGGCTTCTGGCAC
GAACACACTCGGCCAGACCGGGACCGCCACGTTTTCCATCGTTCTGTGAGAACATCCAGCCAGGCGTTCTCCACTCT
TCACTGCTCCTTCTCAGCTGTGGCTCTAGAAATGGTGCTTCCCTTCCCATGTTCCCTTGAGTCTCCACTCACCAG
GCCCCGTGCTGGACAGGACTCTTCTCAGACCCCTCCCCATTCCCCAGGCTCCCCCTTGGCTGCTCCCCGGACCCCTC
AGGGCAGGAGTATATACTTCTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACTTCGACAG
CATCATGCATTACGCTCGGAACACATTCTCCAGGGGCATCTTCTGGATACCATTGTCCCCAAGTATGAGGTGAA
CGGGGTGAAACCTCCCATTTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCGCAAGCTTTACAA
GTGCCCAGCCTGTGGAGAGACCCTGCAAGACAGCACAGGCAACTTCTCCTCCCCTGAATACCCCAATGGCTACTC
TGCTACATGCATGCGTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCCTGAACCTCACGTCCCTGGA
CCTGTACCGCAGCCGCTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGCCCCCTCCG
AGGGCCCAACACTGGCCAGGGATGACAACCTGGTATGGGAGCCAGGAGTCCCTGGCATCATTAGTCCCAGATAGCT
GCATTACTCACTTGCTGCGAGACTTCAGGCCGCTTCTGCGGGTCCAACTCCCTGAGCCTATCGTCTCCACTGAC
AGCCGCTCTGGGTTGAATTCCGCAGCAGCAATTGGGTTGGAAAGGGCTTCTTTGAGTCTACGAAGCCATC
TGCGGGGGTGATGTGAAAAAGGACTATGGCCACATTCAATCGCCCAACTACCCAGACGATTACCGGCCAGCAAA
GTCTGCATCTGGCGGATCCAGGTGTCTGAGGGCTTCCACGTGGGCCTCACATTCCAGTCTTTGAGATTGAGCGC
CACGACAGCTGTGCCTACGACTATCTGGAGGTGCGCGACGGGCACAGTGAGAGCAGCACCCCTCATCGGGCGCTAC
TGTGGCTATGAGAAGCCTGATGACATCAAGAGCACGTCCAGCCGCTCTGGCTCAAGTTCGTCTCTGACGGGTCC
ATTAACAAAGCGGGCTTTGCCGTCAACTTTTTCAAAGAGGTGGACGAGTGCTCTCGGCCCAACCGCGGGGGCTGT
GAGCAGCGGTGCCTCAACACCCTGGGCAGCTACAAGTGAGCTGTGACCCCGGTACGAGCTGGCCCCAGACAAG
CGCCGCTGTGAGGCTGCTTGTGGCGGATTCCCTACCAAGCTCAACGGCTCCATCACCAGCCCGGGCTGGCCCAAG
GAGTACCCCCCAACAAGAACTGCATCTGGCAGCTGGTGGCCCCACCCAGTACCGCATCTCCCTGCAGTTTGAC
TTCTTTGAGACAGAGGGCAATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGCTGACTCC
AAGCTGCATGGCAAGTTCTGTGGTTCTGAGAAGCCCCGAGGTATCACCTCCCAGTACAACAACATGCGCGTGGAG
TTCAAGTCCGACAACACCGTGTCCAAAAGGGCTTCAAGGCCACTTCTTCTCAGAAAAGAGGCCAGCTCTGCAG
CCCCCTCGGGGACGCCCCACACAGCTCAAATTCGGAGTGCAGAAAAGAAACCGGACCCCCAG

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FIGURE 2502

MPGVARLP LLLGLLLLPRPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDEEDLRAFQVQQAVDLR
RHTARKSSIKA AVPGNTSTPSCQSTNGQPQRGACGRWRGRSRSRRAATSRPERVWPDGVIPFVIGGNFTGSQRAV
FRQAMRHWEKHTCVTFLE RTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNCDKFGIVVHELGHVVGFWHEH
TRPD RDRHVSIVRENIQPGVLHSS LLLSCGSRNGASFPCSLESSTHQALCWTGLFLRPSFPRLPLAAPRTLRA
GV

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FIGURE 2503

[illegible]

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FIGURE 2504

MVSWMICRLVVLVFGMLCPAYASYKAVKTKNIREYVRWMMYWIWFALFMAAEIVTDIFISWFFYYEIKMAFVLW
LLSPYTKGASLLYRK FVHPSLSRHEKEIDAYIVQAKERSYETVLSFGKRGLNIAASA AVQAATKSQ GALAGRLRS
FSMQDLRSISDAPAPAYHDPLYLEDQVSHRRPPIGYRAGGLQSDTEDECWSDTEAVPRAPARPREKPLIRSQSL
RVVKKRKP VREGTSRSLKVRTRKKTVP SDVDS

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FIGURE 2505

GA CTGCAATGTGCCGATCTTAGCTGCTGCCTGAGAGGATGTCTGGGGTGTCCGAGCCCCCTGAGTCGAGTAAAGTT
GGGCACGTTACGCCGGCCTGAAGGCCCTGCAGAGCCCCATGGTGGTGGTACCAGTAGATGTGAAAAAGGAGGACGT
GCGTATCCTCAAGGTCTGCTTCTATAGCAACAGCTTCAATCCTGGGAAAACTTCAAACCTGGTCAAATGCACTGT
CCAGACGGAGATCCGGGAGATCATCACCTCCATCTGCTGAGCGGGCGGATCGGGCCCCAACATCCGGTTGGCTGA
GTGCTATGGGCTGAGGCTGAAGCACATGAAGTCCGATGAGATCCACTGGCTGCACCCACAGATGACGGTGGGTGA
GGTGACAGACAAGTATGAGTGTCTGCACGTGGAAGCCGAGTGGAGGTATGACCTTCAAATCCGCTACTTGCCAGA
AGACTTCATGGAGAGCCTGAAGGAGGACAGGACCAGCTGCTCTATTTTACCAACAGCTCCGGAACGACTACAT
GCAGCGCTACGCCAGCAAGGTGAGCGAGGGCATGGCCCTGCAGCTGGGCTGCCTGGAGCTCAGGCGGTTCTTCAA
GGATATGCCCCACAATGCACCTTGACAAGAAGTCCAACCTCGAGCTCCTAGAAAAGGAAGTGGGGCTGGACTTGTT
TTTCCCAAAGCAGATGCAGGAGAACTTAAAGCCCCAACAGTTCCGGAAGATGATCCAGCAGACCTTCCAGCAGTA
CGCCTCGCTCAGGGAGGAGGAGTGCCTCATGAAGTTCTTCAACACTCTCGCCGGCTTCGCCAACATCGACCAGGA
GACCTACCGCTGTGAACCTATTCAAGGATGGAACATTACTGTGGACCTGGTCATTGGCCCTAAAGGGATCCGCCA
GCTGACTAGTCAGGACGCAAGGCCACCTGCCTGGCCGAGTTCAAGCAGATCAGGTCCATCAGGTGCCTCCCGCT
GGAGGAGGGCCAGGCAGTACTTACGTGGGCATTGAAGGTGCCCCCAGGCCTTGTCCATCAAAACCTCATCCCT
AGCAGAGGCTGAGAACATGGCTGACCTCATAGACGGCTACTGCCGGCTGCAGGGTGAGCACCAGGCTCTCTCAT
CATCCATCCTAGGAAAGATGGTGAGAAGCGGAACAGCCTGCCCCAGATCCCCATGCTAAACCTGGAGGCCCGGCG
GTCCACCTCTCAGAGAGCTGCAGCATAGAGTCAGACATCTACGCAGAGATTCCCGACGAAACCTGCGAAGGCC
CGGAGGTCCACAGTATGGCATTGCCCGTGAAGATGTGGTCTGAATCGTATTCTTGGGGAAGGCTTTTTTGGGGA
GGTCTATGAAGGTGTCTACACAAATCACAAAGGGGAGAAAATCAATGTAGCTGTCAAGACCTGCAAGAAAGACTG
CACTCTGGACAACAAGGAGAAGTTTCATGAGCGAGGCAGTGATCATGAAGAACCTCGACCACCCGCACATCGTGAA
GCTGATCGGCATCATTGAAGAGGAGCCACCTGGATCATCATGGAATTGTATCCCTATGGGGAGCTGGGCCACTA
CCTGGAGCGGAACAAGAACTCCCTGAAGGTGCTACCCCTCGTGTGTACTCACTGCAGATATGCAAAGCCATGGC
CTACCTGGAGAGCATCAACTGCGTGACAGGGACATTGCTGTCCGGAACATCCTGGTGGCTCCCTGAGTGTGT
GAAGCTGGGGGACTTTGGTCTTTCCCGGTACATTGAGGACGAGGACTATTACAAAGCCTCTGTGACTCGTCTCCC
CATCAAATGGATGTCCCCAGAGTCCATTAACTTCCGACGCTTACGACAGCCAGTGACGTCTGGATGTTCCGCCGT
GTGCATGTGGGAGATCCTGAGCTTTGGGAAGCAGCCCTTCTTCTGGCTGGAGAACAAGGATGTCATCGGGGCTGT
GGAGAAAGGAGACCGGCTGCCAAGCCTGATCTCTGTCCACCGGTCTTTATACCCTCATGACCCGCTGCTGGGA
CTACGACCCCAAGTGACCGGCCCCGCTTACCGAGCTGGTGTGCAGCCTCAGTGACGTTTATCAGATGGAGAAGGA
CATTGCCATGGAGCAAGAGAGGAATGCTCGCTACCGAACCCCCAAAATCTGGAGCCCCACAGCCTTCCAGGAACC
CCCACCCAAGCCAGCCGACCTAAGTACAGACCCCTCCGCAAAACCAACCTCCTGGCTCCAAAGCTGCAGTTCCA
GGTTCCTGAGGGTCTGTGTGCCAGCTCTCCTACGCTCACCAGCCCTATGGAGTATCCATCTCCCGTTAACTCACT
GCACACCCCACTCTCCACCGGCACAATGTCTTCAAACGCCACAGCATGCGGGAGGAGGACTTCATCCAACCCAG
CAGCCGAGAAGAGGCCCAGCAGCTGTGGGAGGCTGAAAAGGTCAAATGCGGCAAAATCCTGGACAAACAGCAGAA
GCAGATGGTGGAGGACTACCAAGTGGCTCAGGCAGGAGGAGAAGTCCCTGGACCCCATGGTTTATATGAATGATAA
GTCCCCATTGACGCCAGAGAAGGAGGTCCGCTACCTGGAGTTACAGGGGCCCCACAGAAGCCCCGAGGCTGGG
CGCACAGTCCATCCAGCCCACAGCTAACCTGGACCGGACTGATGACCTGGTGTACCTCAATGTGATGGAGCTGGT
GCGGGCCGTGCTGGAGCTCAAGAATGAGCTCTGTGACGTGCCCCCGAGGGCTACGTGGTGGTGGTGAAGAATGT
GGGGCTGACCCTGCGGAAGCTCATCGGGAGCGTGGATGATCTCCTGCCTTCCCTTGCCGTCTCTTACGGACAGA
GATCGAGGGCACCCAGAACTGCTCAACAAAGACCTGGCAGAGCTCATCAACAAGATGCGGCTGGCACAGCAGAA
CGCCGTGACCTCCCTAAGTGAGGAGTGCAAGAGGCAGATGCTGACGGCTTACACACCCCTGGCTGTGGACGCCAA
GAACCTGCTCGACGCTGTGGACCAGGCCAAGGTTCTGGCCAATCTGGCCCAACCCACCTGCAGAGTGACGGAGGGT
GGGGGCCACCTGCCTGCGTCTTCCGCCCTGCCTGCCATGTACCTCCCTGCCTTGCTGTTGGTGTGATGGGTCT
TCCAGGGGGAAGGCCAAGGGGAGTACCTTCCCTTGCCACTTTGCACGACGCCCTTCCCCACCCCTACCCCTGG
CTGTACTGCTCAGGTGTCAGCTGGACAGAGGGGACTCTGGGCTATGGACACAGGGTGACGGTGACAAAGATGGCT
CAGAGGGGGACTGCTGCTGCCTGGCCACTGCTCCCTAAGCCAGCCT

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FIGURE 2506

GAATTCCGCCGCTGACCGAGGCGTGCAAAGACTCCAGAATTGGAGGCATGATGAAGACTCTGCTGCTGTTTGTGG
GGCTGCTGCTGACCTGGGAGAGTGGGCAGGTCTGGGGGACCAGACGGTCTCAGACAATGAGCTCCAGGAAATGT
CCAATCAGGGAAGTAAGTACGTCAATAAGGAAATTCAAATGCTGTCAACGGGGTGAAACAGATAAAGACTCTCA
TAGAAAAACAAACGAAGAGCGCAAGACACTGCTCAGCAACCTAGAAGAAGCCAAGAAGAAGAAAGAGGATGCC
TAAATGAGACCAGGGAATCAGAGACAAAGCTGAAGGAGCTCCCAGGAGTGTGCAATGAGACCATGATGGCCCTCT
GGGAAGAGTGTAAGCCCTGCCTGAAACAGACCTGCATGAAGTTCTACGCACGCGTCTGCAGAAGTGGCTCAGGCC
TGGTTGGCCGCCAGCTTGAGGAGTTCTGAACCAGAGCTCGCCCTTCTACTTCTGGATGAATGGTGACCGCATCG
ACTCCCTGCTGGAGAACGACCGGCAGCAGACGCACATGCTGGATGTCATGCAGGACCACTTCAGCCGCGCGTCCA
GCATCATAGACGAGCTCTTCCAGGACAGGTTCTTCACCCGGGAGCCCCAGGATACCTACCACTACCTGCCCTTCA
GCCTGCCCCACCGGAGGCCCTCACTTCTTCTTCCCAAGTCCCGCATCGTCCGCAGCTTGATGCCCTTCTCTCCGT
ACGAGCCCCTGAACTTCCACGCCATGTTCCAGCCCTTCCTTGAGATGATACAGAGGCTCAGCAGGCCATGGACA
TCCACTTCCACAGCCCGGCCCTTCCAGCACC CGCCAACAGAATTCATACGAGAAGGCGACGATGACCGGACTGTGT
GCCGGGAGATCCGCCACAACCTCCACGGGCTGCCTGCGGATGAAGGACCAGTGTGACAAGTGCCGGGAGATCTTGT
CTGTGGACTGTTCCACCAACAACCCCTCCCAGGCTAAGCTGCGGCGGGAGCTCGACGAATCCCTCCAGGTGCTG
AGAGGTTGACCAGGAAATACAACGAGCTGCTAAAGTCCTACCAGTGGAAGATGCTCAACACCTCCTCCTTGCTGG
AGCAGCTGAACGAGCAGTTTAACTGGGTGTCCCGGCTGGCAAACCTCACGCAAGGCGAAGACCAGTACTATCTGC
GGGTACCACGGTGGCTTCCCACTTCTGACTCGGACGTTCTTCCGGTGTCACTGAGGTGGTCGTGAAGCTCT
TTGACTCTGATCCCATCACTGTGACGGTCCCTGTAGAAGTCTCCAGGAAGAACCCTAAATTTATGGAGACCGTGG
CGGAGAAAGCGCTGCAGGAATACCGCAAAAAGCACCGGGAGGAGTGAGATGTGGATGTTGCTTTTGCACCTTACG
GGGCGATCTTGAGTCCAGCTCCCCCAAGATGAGCTGCAGCCCCCAGAGAGAGCTCTGCACGTCACCAAGTAAC
CAGGCCCCAGCCTCCAGGCCCCCAACTCCGCCCAGCCTCTCCCCGCTCTGGATCCTGCACTCTAACACTCGACTC
TGCTGCTCATGGGAAGAACAGAATTGCTCCTGCATGCAACTAATTCAATAAAACTGTCTTGTGAGCTGAAAAAA
AAAAAAAAAAAAAAAAAAGGAATTC

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FIGURE 2507

MMKTLLLFVGLLLTWESGQVLGDQTVSDNELQEMSNQGSKYVNKEIQNAVNGVKQIKTLIEKTNEERKTLLSNLE
EAKKKKEDALNETRESETKLKELPGVCNETMMALWEECKPCLKQTCMKFYARVCRSGSGLVGRQLEEFNLQSSPF
YFWMNGDRIDSLENDRQQTHMLDVMQDHFSRASSIIDELFQDRFFTREPQDTYHYLPFSLPHRRPHFFFPKSRI
VRSIMPFSPIEPLNFHAMFQPFLEMIHEAQQAMDIFHSPAFQHPPTEFIREGDDRTVCREIRHNSTGCLRMKD
QCDKCREILSVDCSTNNPSQAKLRREIDESLQVAERLTRKYNELLKSYQWKMLNTSSLLEQLNEQFNWVSRLANL
TQGEDQYYLRVTTVASHTSDSDVPSGVTEVVVKLFDSDPITVTVPEVSRKNPKFMETVAEKALQEYRKKHREE

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FIGURE 2508

ATAGTGACAAGTTTGGAGAAGGTCCAGCTATGGAGGAAGTTCATATGGGAATAGTACTAACAATGTCCCAGCAT
CTTCCTCTACAGCTACAGCTTCCACACAGACGCAGCATTTCGGGAATGTCCTCCGTCACCTAGCAACAGTTATGACA
CTTCCCCACAGCCTTGCACTACCAATCAAAATGGGAGGGAGAATAATGAGCGATTATCTACATCCAATGGAAAGA
TGTCACCAACTCGCTACCATGCAAACAGCATGGGTGAGAGGTCATACAGTTTTGAAGCCTCAGAAGAGGACCTAG
ATGTAGATGATAAAGTGGAGAATTAATGAGGAGGGACAGCAGTGTGATAAAAGAGGAAATCAAAGCCTTTCTTG
CCAATCGGAGGATTTCCCAAGCAGTTGTTGCACAGGTAACAGGTATCAGTCAGAGCCGGATCTCTCATTGGCTGT
TGCAGCAGGGATCAGACCTGAGTGAACAGAAGAAAAGAGCATTTTACCGATGGTATCAACTTGAGAAGACAAACC
CTGGCGCTACACTAAGTATGAGACCAGCCCCATTCCAATAGAGGACCCTGAATGGAGACAAACGCCTCCCCCAG
TCTCTGCCACATCTGGTACTTTCCGACTGCGACGAGGGAGTCGATTTACCTGGAGAAAGGAGTGCCTGGCTGTTA
TGGAAAGTTACTTCAATGAGAATCAATACCCAGATGAAGCAAAGAGGGAAGAAATTGCAAACGCTTGCAATGCAG
TTATACAGAAGCCAGGCAAAAAGCTGTCAGATCTGGAAAGAGTTACCTCCCTGAAAGTATATAATTGGTTTGCTA
ACAGAAGGAAGGAGATCAAGAGGAGAGCCAATATTGAAGCAGCAATCCTGGAGAGTCATGGGATAGATGTGCAGA
GTCCAGGAGGCCACTCAAACAGTGATGATGTCGACGGGAATGACTACTCTGAGCAGGATGACAGTACGAGCCATA
GTGACCACCAAGACCCCATCTCATTAGCTGTGAAATGGCAGCAGTCAACCACACTATCTTGGCATTGGCCCGAC
AAGGAGCCAACGAAATCAAGACAGAGGCCCTGGATGATGACTGATCAGGGAGGTTAAACATGACAAGTTAACTTA
GTTTAGACGTAGCACCTTAGCAGACTTTCCCTCGGTCCTTAACATGTGTTCTTACAGTATAACTTGCAGTTTCTTG
TATGTCAGGTAGCTGTTAGGGTCTTGTTCTGTGAAGATGGCATGGTGCCCTCAGCCTTTGCATATACTCTCTCAG
TATTAACCTCCAGTAAATAATAACCAACCAACCAACCAACCAACTTCCCTCTCCAGCCCCCGAGGCTAGAAAA
TCTTGCTGCTCCGCTCTTAGCATTCCAAGAGAGTGCTTCCAGGTATTTAGATAGCCCTCAGTTCTCAAATATTAGA
CTACGTGTAAAATCTTGGGTACCTTTAGATTCTTGTAACACTAGTCTGTACTCCCTTTTCCCTTCCCCAAGACTGA
TAGGATGCAAGCTGAGGTGCTGGCACAGGAATGACAGACACCATTTGGGGAGTATCCACAGAGTCAAAGGAACAC
TAGAATCCCCACCTCAGCGTGAGGATAATTGATTTCCAGCTGCAATAAGCCGTGCCTCATTATAGCCACACTGTG
GCTAGATTATACTTCTTTGGGTGCTGTGCTAAGAATGTCAATGGAAAAAGCCGATCTCAGATTTTGTGTTGAAGTT
AACATGCCTGACACAGACATCCTTTCTCTCACAAGCTGTGTGACTTAGTAGATAAAATACTGCCTTCTGCCTTT
GGGACCATGATTAAAAACAAAGACAAAAACCAAAAGTCATTAAAAA

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FIGURE 2509

MSPSPSNSYDTSPQPCTTNQNGRENNERLSTSNKGMSPTRYHANSMGQRSYSFEASEEDLDVDDKVEELMRRDSS
VIKEEIKAF LANRRISQAVVAQVTGISQSRISHWLLQQGSDLSEQKKRAFYRWYQLEKTNPGATLSMRPAPIPIE
DPEWRQTPPPVSATSGTFLRRGSRFTWRKECLAVMESYFNENQYPDEAKREEIANACNAVIQKPGKKLSDLERV
TSLKVYNWFANRRKEIKRRANIEAAILESHGIDVQSPGGHSNSDDVDGNDYSEQDDSTSHSDHQDPISLAVEMAA
VNHTILALARQGANEIKTEALDDD

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FIGURE 2510

AGGTGGCGGAGATTGCACCGGAAGACGCTTCCTGGGTTTGAGGAGTTCAGTGACTGCTATTGAACCACCAAAAGT
CCATTATGAAACTGTATTGCCTGTCAGGGCACCCAACCTTACCATGCAATGTGCTCAAATTCAAATCAACCACCA
TTATGTTGGACTGCGGACTGGACATGACTTCTACCCTCAATTCCTTCCTTTGCCACTTGTTCAAAGTCCCAGGC
TGTCCAATCTTCCTGGCTGGTCCCTGAAGGATGGAAATGCTTCTTGACAAAGGAGCTAAAGGAGTGCTCGGGTC
ATGATTTGTGGATTCTGTGCCGGAATTCTGTTTACCAGAGACGGAGCTAATAGATCTGTCTACAGTAGATGTGA
TTCTCATCTCTAACTATCACTGTATGATGGCGCTGCCATACATCACCGAGCACACCGGCTTCACAGGCACAGTGT
ATGCCACGGAACCCACCGTCCAGATCGGCAGGCTTCTCATGGGAAGAGCTGGTGAATTCATTGAAAGAGTGCCAA
AGGCTCAGTCTGCCTCCTTGTGGAAGAATAAGGACATTAGAGGCTGTTACCTTCTCCTCTCAAGGATGCAGTGG
AAGTCTCAACCTGGAGAAGATGCTATACAATGCAAGAGGTGAACTCTGCCCTTAGTAAAATCCAGCTGGTGGGAT
ATTCTCAGAAAATTGAGCTTTTTTGGTGCGGTCCAGGTGACTCCTCTGAGCTCTGGCTATGCCCTTGGGAGCTCCA
ACTGGATCATCCAGTCTCATTACGAGAAAGTGCTTATGTCTCTGGATCCTCCTTGCTTACCACACACCCCCAGC
CCATGGACCAAGCTTCTCTCAAAAACAGCGATGTTCTTGTCTGACAGGGCTTACCCAGATCCCCACTGCAAACC
CAGATGGAATGGTGGGAGAGTTCTGCAGCAACCTAGCTCTGACAGTCCGGAATGGAGGAAACGTGTTGGTTCCCT
GCTACCTTCTGGAGTGATCTATGACCTCCTGGAGTGCCTATATCAGTACATCGACTCAGCCGGGCTTTCACGCG
CCCCCTCTACTTCATCTCCCCTGTGGCCAAACAGTTCACTGGAGTTTTTCCCAGATCTTTGCTGAGTGGCTTTGTC
ACAACAAACAGAGTAAGGTGTATCTTCCAGAACCACTTTTCTCATGCAGAGCTCATTAGACCAATAAGCTGA
AGCACTACCCAGCATCCACGGAGACTTCAGCAACGACTTTAGACAGCCCTGTGTGGTGTTCACCGGCACCCCTT
CCCTCCGCTTCGGGGACGTGGTCCACTTCATGGAGCTCTGGGGAAAATCTAGTCTCAATACCGTCATATTACGG
AACCAGACTTCTCCTACCTGGAAGCCCTGGCTCCTTACCAGCCGCTGGCCATGAAATGCATCTACTGCCCATCG
ACACCCGGCTGAACTTCATCCAGGTGTCAAAGCTGCTTAAAGAAGTGCAGCCCTGCACGTGGTGTGTCTCTGAGC
AGTACACTCAGCCGCCCCCAGCCAGTCCACAGGATGGACCTCATGATCGACTGCCAGCCCCCGCCATGTCTCT
ATCGGCGGGCTGAGGTTCTCGCCCTGCCCTTCAAACGTGGTACGAGAAGATCGAGATCATGCCAGAGCTCGCAG
ATTCAGTGGTGGCCATGGAGATCAAGCCTGGCATCTCCTTGGAACCTGTCTCGGCCGTGCTGCACACCAAAGATA
ACAAGCACTTGCTTCAGCCCCCTCCTCGGCCCCGCCCAGCCACGAGCGGGAAGAAGAGAAAGCGGGTGAGCGATG
ACGTACCAGACTGCAAAGTCTGAAGCCTTTGTTGAGCGGTTCCATCCCTGTGGAGCAGTTCGTGCAGACCCCTGG
AGAAGCATGGCTTCAGTGATATTAAGGTGGAGGACACAGCCAAGGGCCATATCGTCCTGCTCCAGGAGGCTGAGA
CGCTCATCCAGATTGAAGAAGACTCGACCCATATCATCTGCGACAATGACGAGATGCTCAGAGTCCGACTGCGGG
ACCTTGTCTCAAATTCTTACAGAAGTCTTGAGTGGGCCATCTGAGCTACTTCCCTGAAATCCTGCAGTCCCTCA
CTGGCTGCCCTCACAAGCCACCTGAGGAGTGGCATGAGAGGCCATTAAGTGTGTCTTTGTGGTGTCTCTGGCTT
AAGGAGTGAAGAGGTGGCTCTTGAGGGAATGGTCTGGACTTATCCCAGCACTGTTTCAGGCAAGAAGTTCCTT
TTCAACTTCAGGCTCATTTTCTTCTCAACTCTGGCTCTCTCAAGGAGCTGGAGGGTGACAGAAGTGGGACAGGA
GAAGTTTTCCAAGAGTTTCATGGGAGGCGGAGGTGACTGGCTGGCTGTCTTGATCAGTCCAGGCTCGGCCAG
GGGAGCCAGCCTTTGGTTTCGTTTACTTGCCTACAGTGTGTACGCAATAAGATGATGATCCCAAAATATGGTAA
AGTGAACCCATCTGTCTGCATTTTCTACTCTGAGCCATTTGTTAATAAACACTTATTTTTATAT

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FIGURE 2511

MKLYCLSGHPTLPCNVLFKFKSTTIMLDCGLDMTSTLNFLEPLPLVQSPRLSNLPGWSLKDGNFLDKELKECSGHV
FVDSVPEFCLPETELIDLSTVDVILISNYHCMMALPYITEHTGFTGTVYATEPTVQIGRLLMEELVNFIERVPA
QSASLWKNKDIQRLLPSPKDAVEVSTWRRCYTMQEVNSALSQIQLVGYSQKIELFGAVQVTPLSGGYALGSSNW
IIQSHYEKVSYSVSGSSLLTTHPQPMQASLKNSDVLVLTGLTQIPTANPDGMVGEFCSNLALTVRNGGNVLP
PSGVIYDLLECLYQYIDSAGLSSAPLYFISPVANSSLEFSQIFAEWLCHNKQSKVYLPEPPPPHAELIQT
NKLKH
YPSIHGDFSNDFRQPCVVFTGHPSLRFQDVVHFMELWGKSSLNTVIFTEPDFSYLEALAPYQPLAMKCIYCP
IDT
RLNFIQVSKLLKEVQPLHVVCPEQYTQPPPAQSHRMDLMIDCQPPAMSYRRAEVLALPFKRRYEKIEIMPE
LADS
LVPMEIKPGISLATVSAVLHTKDNKHLQPPPRPAQPTSGKKRKRVSDDVPDCKVLKPLLSGSIPVEQFVQ
TLEK
HGFSDIKVEDTAKGHIVLLQEAETLIQIEEDSTHIICDNDEMLRVRLDLVLKFLQKF

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FIGURE 2512

CTGCACAGGGAGTTTGTCTTGTGCAAACAATTTCCAAGGCAGCGTTTTCTTCCCTGCCTGGGAGTGCAGGGCTCA
GCGCCTTCACTTTGGAACTGACTCAGAGACCTAAAGAAGCCACCTGGCCAGCGGGAAGGGGGCCGCCGCCGCC
TCCCGGTTTTGGGCAGCCCTGGCCAGCTCCCTGTGGCCTTGGAGGACTTCCACCGGGCAGGCGTTCCCATGATGC
CAGGCTACCAGGCGCGGGGATTCCCTGCAGGCCGGCGCTGCTTTTTCTTAGAACCCCTTTCTAGAAAAGTACACC
TGGAGGTTTTGCTTCAAAGAGAGGAGAGGCAGCAGCATGCGAGTGTCTGTCTCCGACGCTTGGAAAGCGGTCC
CTCTGGGAGCCCGGTGTTGGGACCCAGTGCCTCGGAGGGGCCCTCGGCTGCCCCACCCTCGGAGCCACTGCTA
GAAGGGGCCGCTCCCCAGCCTTTACCACCTCTGATGACACCCCTGCCAGGAGCAGCCCAAGGAAGTCCTTAAG
GCTCCCAGCACCTCGGGCCCTTCAGCAGGTGGCCCTTTAGCCTGGGCAGAAAGGTTTATGTGTGGTACGGGGGTCAA
GAGTGCACAGGACTGGTGGAGCAGCACAGCTGGATGGAGGGTCAGGTGACCGTCTGGCTGCTGGAGCAGAAGCTG
CAGGTCTGCTGCAGGTTGGAGGAGGTGTGGCTGGCAGAGCTGCAGGGCCCCCTGTCCCCAGGCACCAACCCCTGGAG
CCCGAGGCCAGGCCCTGGCCTACAGGCCCGTCTCCAGGAACATCGATGTCCCAAAGAGGAAGTCGGACGCAGTG
GAAATGGATGAGATGATGGCGGCCATGGTGCTGACGTCCCTGTCTGCAGCCCTGTTGTACAGAGTCTCTCCGGG
ACCGAGGCCAACTTCTCTGCTTCCCGTGGGCCCTGCGACCCATGGAAGGAGAGTGGTGACATCTCGGACAGCGGC
AGCAGCACTACCAGCGGTCACTGGAGTGGGAGCAGTGGTGTCTCCACCCCTCGCCCCCCCCACCCCAAGGCCAGC
CCCAAGTATTTGGGGGATGCTTTTGGTTCTCCCCAACTGATCATGGCTTTGAGACCGATCCTGACCCCTTTCCTG
CTGGACGAACCAGCTCCACGAAAAAGAAAGAACTCTGTGAAGGTGATGTACAAGTGCTGTGGCCAACTGTGGC
AAAGTTCTGCGCTCCATTGTGGGCATCAAACGACACGTCAAAGCCCTCCATCTGGGGGACACAGTGGACTCTGAT
CAGTTCAAGCGGGAGGAGGATTTCTACTACACAGAGGTGCAGCTGAAGGAGGAATCTGCTGCTGCTGCTGCTGCT
GCTGCCGACAGGCACCCAGTCCCTGGGACTCCACCTCCGAGCCAGCTCCCCACCCCAAGATGACTGGCCTGCCT
CTGTCTGCTCTTCCACCACCTCTGCACAAAGCCCAGTCTCCGGCCCCAGAACATCCTGGCCCCGAGTCTCTCCCTG
CCCTCAGGGGCTCTCAGCAAGTCAGTCTCTGGGTCTTCTGGCACATTCAGGCAGATCATGCATACCAGGCTCTG
CCATCCTTCCAGATCCAGTCTCACCACACATCTACACCAAGTGTGAGTGGGCTGCTGCCCCCTCCGCCGCTGC
TCTCTCTCTCCGGTCCGGAGCCGGTCGCTAAGCTTCAGCGAGCCCCAGCAGCCAGCACCTGCGATGAAATCTCAT
CTGATCGTCACTTCTCCACCCCGGGCCAGAGTGGTGCCAGGAAAGCCCGAGGGGAGGCTAAGAAGTGCCGCAAG
GTGTATGGCATCGAGCACCGGGACAGTGGTGCACGGCGTGCCGGTGGAAGAAGGCCTGCCAGCGCTTTCTGGAC
TGAGGCTGTGCTGCAGGTTCTACTCTGTTCTTGGCCCTGCCGGCAGCCACTGACAAGAGGCCAGTGTGTCACCAGC
CCTCAGCAGAAACCGAAAGAGAAAGAACGGAAACACGGAGTTTGGGCTCTGTTGGCTAAGGTGTAACACTTAAAG
CAATTTTCTCCATTGTGCGAACATTTTATTTTTTAAAAAAA

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FIGURE 2513

MASVLSRRLGKRSLLGARVLGPSASEGPSAAPPSEPLLEGAAPQPFTTSDDTPCQEOPKEVLKAPSTSGLQQVAF
QPGQKVYVWYGGQECTGLVEQHSWMEGQVTWVWLEQKLQVCCRVEEVWLAELQGPCPQAPPLEPGAQALAYRPVS
RNIDVPKRKSDAVEMDEMMAAMVLTSLSCSPVVQSPPGTEANFSASRAACDPWKESGDISDSGSSTTSGHWSGSS
GVSTPSPPHPQASPKYLGDAGSPQTDHGFETDPPFLLEDPAPRKRKNSVKVMYKCLWPNCGKVLRSIVGIKRH
VKALHLGDTVDSQDFKREEDFYITEVQLKEESAAAAAAAAAAGTPVPGTPTSEPAPTPSMTGLPLSALPPPLHKAQ
SSGPEHPGPESLPSGALSKSAPGSFWHIQADHAYQALPSFQIPVSPHIYTSVSWAAAPSAACSLSPVRSRSLSF
SEPQQPAPAMKSHLIVTSPPRAQSGARKARGEAKKCRKVYGIEHRDQWCTACRWKKACQRFLD

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FIGURE 2514A

ATGCTCCATGCTGCAAGCTGCAAGGAGAGCCCAGGAGGGGTGTCCTCCTGGTGGAAGTTGCGCTTGTTGAAGATG
ATTTATATAAAGAACGAACGAGAAAAAGAAGGAAATCAGATCGAGACCAGCGGTTCCGAGCATTTCCTCCATGG
AGCAGAGTGCTCTTAAGGAATATGAAAAATTGGAATCACGGACCAGAAGGGTTTTGAGCAACACTTATCAGAAAC
TTATTCAGTCTGTCTTCTGGATGACAGCATCCCTAATGGAGTCAAGTATCTCATAAATAGGCTTCTTGCCCTTGA
TTGAAAAGCCGACAGTGGACCCAATCTACATTGCATTATTTGGAAGCACTGGGGCTGGGAAGAGCTCCCTGATCA
ATGCCATCATCCAGCAAGCAATGTTTCTACCAAGTGTCTGGAGAAAGCATATGTAATTCCTGCATTGTACAAGTGA
GCTCTGGCTGCTGTGTGCAGTATGAGGCCAAAATCCACCTTCTGTCTGACCAGGAGTGGAGGGAGGAGCTGAAGA
ACCTGACCAAACTCCTGCATAGGACGGAGGAGCTGAGCAGAGAAGAGGCAGATGCGTGGAAACAGGGATGAGGCAG
TGGAGGAAGCCACCTGGAAGCTACAAATGATTATGGAATGGGGCAGAGAGTAAGAACTATGAGGAGTTACTGA
GGGCGAAGCCCAAAAGGAAGATCCCCACCTCCAGAGTCATCACCTCAAGGCGGAAGAGGCAGAAGAGCTGTCCA
TCAAGCTGGACCCCTACATCCGCACACAGAGGAGAGATTGGGATGGAGAGGCCGCTGAGATGCGCATCTGGCCCT
TGATCAAAATGTGGAAGTGACACTTCCCAATCCGACCTGATCCCAAGAGGGGTCTGCTGGTGGACATCCAG
GCACAGGCGACTTCAACAGCAAGAGGGACGAGATGTGGAAGAAAGACCATTGACAAGTGCTCAGTGATCTGGGTGA
TCAGCGACATAGAGCGAGTTTCTGGGGGGCAAGCCACGAAGACCTTCTGAATGAGAGCATCAAAGCCTGCCAGC
GGGGCTTCTGTAGGGACGTGGCCCTGGTGGTCACCAAGATGGACAACTCCACTTGCCAGAATACCTAAGGTCT
CAAAAGTTTGTAGAACTTCGGGAGAAGAGAAAACTGCCAGCTGACTTCAAGGTTCTGGAAGCCTCAGATCTGGTGT
ATACAGTCAGCGCCAGGAGTACTGGCAGCAGGCTCTCCTCACCAGGAGGAAACGGAAATCCCTAAGTTAAGAG
AATACATCAGGAAGAGCCTCTTGGAACAAGAAGAGGACAGTGACCAAGTATGTGACTGAAGCCTTTGGCCTGT
TGCTCCTCACAGATAGTTTCAACTCCACGCAAAACCTGCCGAATGAACACTTGACATGAGTGTCTGCGGAGAT
TTGCGGAAGAGAAGGTTGAGCTGTGGAGAAGGCCATCGCACAGTGCTTCGCCCTGCATGGAGCAGCCTCTGCAAG
AAGGGGTCAGGACCGCCAGGACTTCTTACCCTGCATCCTCAGAGCATGCTTGGTGAGGAGTAAAGGAAACCAAG
GTTTTATCAGACCCCTGAAAGCTGTTTGCCGTGAAAAATGGCATCTATGCCTCCAGGACTCTGGCGAGAATTGATC
TAAATGAAGCCCTCACTCAGCCCGTCTATGACCAGATCGACCTGTTTTTGGAGCATTTTTAGGACGGGGAAGC
CCACTGGTTCAGCTCTGATGCCTCACATAGATGCTTTTAAGCAGTCCCTGCAGGAGAAAATGACAGAAATTGGGA
TAAGAAAGTGGCTGGAATATGATAGCTGCAAAAAAATTTCTGATCCAGGAGATAAGTGCCATCCTCGGGGGCC
TGGAGGACCACATCCTCAGAAGGAAGAGGAGGATCTACGAGTCCCTCACTGCCTCTGTCCAGAGTGACCTGAAGC
TCTGTTACGAAGAGGACAGCTCAGATCACGGGCAAAAAGCGTGTGAGCGGATGAAAGATGCCATCAGAAGAGGAG
TGGACCGGCAGGTGGCTGAGGGCATGTTTGAAAGGGCCAGGAAAGGATGCAGCACCAGTTTACAGAGCTGAAGG
TACTCTATGCCCACATCCTGGATCCTAGACCCCGAGAGGCTCCGGGGGAGGAGAGGAAGCGAGTGCAGAAGACTG
GAATCGTGGAGAAGGTGAAGGGCAGCATCACCCTATGCTGGCCCTTGTCTCGTCCAGGGGGATGGCCTCTACA
AGGAGCTTGCAGGGCTGAGCTGCAGGATGGGAGACAATGACAAATGGGACGTGGCCCTTCTCAGGAAGGGGAC
AGCTGTTGCAGGGTGTGATGGAGAACAAGCTATGTACCTACACACCGTCAGCGACTGTGACACCAGCTCCATCT
GTGAGGATTCTTTGATGGCAGGAGCCTGTCCAAGCTGAACCTGTGTGAGGATGGTCCATGTACAAACGGCGGG
CAAGCATCTGCTGTACCCAGCTGGGGTCCCTGTGCGCCCTGAAGCATGCTGTCTGGGGCTCTACCTGCTGGTCT
TCCTGATTCTTGTGGGCATCTTATCTTTAGCAGCCTGCTGCCACGCGTGCAGTTCCTGAGAGGACATGACCCAGG
GCTTGCCAGCCCGTGCACGCATTTTACCCCTTGTATCCTGGGAGGTCCCTGACAGCAGAGGGTCCCTGATACCTGG
GAACAGCCAGGGACAGAAGCTGGGACCCAGGAGCTGTGCAGCAGGGGCTGAGTTGTCTGGGGAGAGCGCTTACC
TGCCCACTCCTGTCCCCGGGATCGGGACTTCCAGAGGGTGAAGTGTCCAGGCCGCGCAGCTCCCTGCAGACC
TGAAGGCCCTGACTCGCAATGTGAACCGGCTGAATGAGAGCTTCCGGGACTTGCAGCTGCGGCTGCTCAGGCTC
CGCTGCAAGCGGACCTGACGGAGCAGGTGTGAAGGTGCAGGACGCGCTGCAGAACAGTCAAGTCAAGTCTGCTGG
CGCTGGCGGGCGAGTGCAGCGGCTGGAGGGCGCGCTGTGGGGCTGCAGGCGCAGGCGGTGCAGACCGAGCAGG
CGGTGGCCCTGCTGCGGGACCGCACGGGCCAGCAGAGCGACACGGCGCAGCTGGAGCTCTACCAGTGCAGGTGG
AGAGCAACAGTAGCCAGCTGCTGCTGAGGCGCCACGCGGGCTGCTGGACGGCTGGCGCGCAGGTTGGCATCC
TGGCGGAGGAGCTGGCCGACGTGGGCGGCTGCTGCGCGGCTCAACCACAGCCTGTCTACGAGCTGGCCCTCC
ACCGCACGCGGCTGCAGGACCTGCGGGTCTGGTGAGCAACGCCAGCGAGGACACGCGCGCCTGCGCCTGGCGC
ACGTAGGCATGGAGCTGCAGCTGAAGCAGGAGCTGGCCATGCTCAACGCGGTACCGAGGACCTGCGCCTCAAGG
ACTGGGAGCACTCCATCGCACTGCGGAACATCTCCCTCGCGAAAGGGCCACCGGGACCCAAAGGTGATCAGGGGG
ATGAAGGAAAGGAAGGCAGGCCTGGCATCCCTGGATTGCTGGACTTCGAGGTCTGCCCGGGAGAGAGGTACCC

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FIGURE 2514B

CAGGATTGCCCCGGGCCCAAGGGCGATGATGGGAAGCTGGGGGCCACAGGACCAATGGGCATGCGTGGGTTCAAAG
GTGACCGAGGCCCAAAAGGAGAGAAAGGAGAGAAAGGAGACAGAGCTGGGGATGCCAGTAAGGACATTCTGCTGG
GGCCGTGGGATATGATCATTACGATTACTCTTGGCCATGCAGTACACATCAGACACTTCAACTGCCTTCTCTT
CAGTTGCTCATATCAGCTGA

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FIGURE 2515

CTTCCTGCCGCCGCGTTCCGACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCA
GAGAAAAAAAAAATTACTTATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAATTAAATTTTAACCATGA
GGGAAATCGTGCACATCCAGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATG
AACATGGCATCGACCCCACTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACA
GTGAAGCCACTGATGGCAAATATGTTCCCTCGTGCCATACTGGTGGATCTAGAACCCCTTCCCACGTCTCCATTTT
TTTATGCCTGGCTTTGCCCCCTCTCACCAGCCATGGAAGCCAGCAGTATCGAGCTCTCACAGTGCCGGAACCTACC
CAGCAGGTCTTCGATGCCAAGAGCATGATGGCTGCCTGTGACCCCCGCCACGGCCGATACCTCACCCTGGCTGCT
GACTTCCGTGGTCCGATGTCCATGAAGGAGGTGATGAGCAGATGTTTAACGTGCAGAACAGAACAGCAGCTAC
TTTGTGGAATGGATCCCCAACAATATCAAGACAGCTGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTC
ACCTTCATCGGCAGTAGCACGGCCATCCAGGAGCTCTTCAAGCACATCTCGGAGCAGTTCACTGCCATGTTCCGC
CGGAAGGCCTTCCTCCACTGGTACACAGGCGAGGGCATGGACGAGA

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FIGURE 2516

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSLQLDRLSVYYNEATGGKYVPRAILVDLEPGSHVS
ISLCLALPLSPAVEASSIELSQCRNSPSRSSMPRT

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FIGURE 2517

GCACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCAGAGAAAAAAATTACTT
ATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAATTAATTTTAACCATGAGGGAAATCGTGCACATCC
AGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCCA
CTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACAGTGAAGCCACTGATGGCA
AATATGTTCTCGTGCCATACTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTTCGCTCAGGTCCTTTTGGCC
AGATCTTTAGACCAGACAACCTTTGTATTGGTCAGTCTGGGGCAGGTAACAACCTGGGCCAAAGGCCACTACACAG
AGGGCGCCGAGCTGGTTGATTCTGTCTGGATGTGGTACGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCT
TCCAGCTCCCCGCCACGGCCGATACCTCACCGTGGCTGCTGACTTCCGTGGTCGGATGTCCATGAAGGAGGTCGA
TGAGCAGATGTTTAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACATATCAAGACAGC
TGCTGTGACATCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGAGCT
CTTCAAGCACATCTCGGAGCAGTT

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FIGURE 2518

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGSDQLDRLSVYYNEATGGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLQGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPAESNMNDLVSEYQQYQDATAEEEEEDFGEEAEEEA

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FIGURE 2519

GCACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCAGCCTGCGACCTGCAGAGAAAAAAATTACTT .
ATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGACATCC
AGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCCA
CTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACAGTGAAGCCACTGATGGCA
AATATGTTCTCTCGTGCCATACTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTTCGCTCAGGTCTTTTGGCC
AGATCTTTAGACCCGCCACGGCCGATACCTCACCGTGGCTGCTGACTTCCGTGGTCGGATGTCCATGAAGGAGGT
CGATGAGCAGATGTTTAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAATATCAAGAC
AGCTGTCTGTGACATCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGA
GCTCTTCAAGCACATCTCGGAGCAGTTCAGTGCCATGTTCCGCCGAAGGCCTTCTCCACTGGTACAC

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FIGURE 2520

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSLQLDRI SVYYNEATGGKYVPRAILVDLEPGTMS
VRSGPFGQIFRPATADTSPWLLSSVVGCP

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FIGURE 2521

CTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCAGAGAAAAAAATTACTTATTTTCTTGCC
CCGTACATAACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGCACATCCAGGCTGGTCAG
CGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGTCCATGAAGGAGGTGCGATGAGCA
GATGTTTAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAATATCAAGACAGCTGTCTG
TGACATCCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGAGCTCTTCAA
GCACATCTCGGAGCAGTTCAGTGCCATGTTCCGCCGGAAGGCCTTCCTCCACTGGTACACAGGCGAGGGCATGGA
CGAGATGGAGTTCACCGAGGCTGACAGCAACATGAACGACCTCGTCTCTGAGTATCAGCAGTACCAGGATGCCAC
CGCAGAAGAGGAGGAGGATTTCCGGTGAGGAGGCCAAAGAGGAGGCCTAAGGCAGAGCCCCATCACCTCAGGCTT
CTCAGTTCCTTAGCCGTCTTACTCAACTGCCCGTTTCCTCTCCCTCAGAATTTGTGTTTGCTGCCTCTATCTTG
TTTTTGTTTTTTCTTCTGGGGAGGGTCTAGAACAGTGCCTGGCACATAGTAGGCACTCAATAAATACTTGTTTG
TT

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FIGURE 2522

MREIVHIQAGQRGNQIGAKFWEVISDEHGIDPTGTYHGSDQLDRLSVYYSEATDGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLOGFQLTHSLGGGTGSGMGT
LISKIREEYPDRIMNTFSVVPSPKVSDTVIESYNATLSVHQLVENTDETYCIDNEALYDICFRTLRTTPTYGDL
NHLLRDTMSGVTTCLRFPGQLNADLCKLAVNMVPPFRLHFFMPGFAPLTSHGSQQYRALTVPELTQQVFDAKSMM
AACDPRHGRYLTVAADFRGRMSMKEVDEQMFNVQKNSSYFVEWIPNNIKTAVCDIPPRGLKMAVTFIGSSTAIQ
ELFKHISEQFTAMFRRKAFLHWYTGEGMDEMEFTEADSNMNDLVSEYQQYQDATAEEEEEDFGEEAKEEA

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FIGURE 2523

GGGGACGCCGAGGGCGGCTGCGACGCGCCGAGAGGCCGCGGCTCTCCACCTGTACCCTGGCCCTTCTCTGCTT
GGATGGTGTCTTCTCTCTCTCAGCCGAGAATGACTTCGTCCACCGGATCCAGGAGGAACTGGACCGCTTTCTGCT
GCAGAAAGCAGCTGTCAAAGGTTCTTCTTTTCCCCCACTCTCCAGTCGCCTCCGGTACCTGATCCATAGAACAGC
AGAGAAATTTGATCTCTTGAGCAGCTTCTCCGTTGGGGAGGGCTGGAAGAGGAGGACGGTCATCTGTACCAGGA
CATCAGGGTACCCAGTTCGGATGGCCTCTCTGGCCCCCTGCCGCGCTCCTGCCTCCTGCCCCAGCAGGTACCACGG
TCCTCGGCCCATCTCCAACCAAGGAGCAGCTGCGGTTCCCCGAGGTGCCCGGGCTGGCCGGTGGTATCGTGGACG
CAAGCCTGACCAGCCTTTGTATGTGCCCCGGGTGCTGCGCAGGCAGGAAGAATGGGGGCTGACCTCTACCTCGGT
GCTCAAGAGAGAGGGCCCCAGCTGGCAGGGACCCAGAAGAGCCTGGAGATGTTGGTGCTGGAGACCCCAACTCTGA
TCAGGGACTCCCTGTGCTGATGACTCAGGGAACAGAGGACCTAAAGGGCCCCAGGACAAAGGTGTGAGAATGAGCC
ACTGCTGGACCCTGTTGGCCCTGAGCCTCTGGGGCCTGAGAGTCAGTCAGGGAAGGGAGACATGGTGGAGATGGC
CACACGTTTTGGGTCCACCCTGCAGCTAGACCTGGAAAAGGGGAAGGAGAGTCTGTTGGAGAAGAGGCTGGTGGC
AGAGGAGGAAGAGGACGAAGAGGAGGTGGAAGAGGATGGCCCCAGCAGCTGCTCGGAGGACGATTACAGTGAGCT
GCTGCAGGAGATCACAGACAACCTGACGAAGAAGGAGATTCAGATAGAGAAGATCCATTTGGACACATCCTCCTT
CGTGGAGGAGCTGCCTGGAGAGAAGGACCTTGCCACGTGGTAGAGATCTATGACTTTGAACCAGCGCTCAAGAC
GGAGGACCTGCTGGCAACGTTTTCTGAGTTCCAAGAGAAGGGGTTTCAGGATTCAGTGGGTGGATGATACTCACGC
ACTCGGCATCTTTCCCTGCCTGGCCTCAGCTGCGGAAGCCCTGACCCGGGAGTTCTCGGTGCTCAAGATCCGGCC
CCTCACACAGGGAACCAAGCAGTCAAAGCTCAAAGCCTTGACAGAGGCCAAAACCTCTGCGTCTGGTGAAGGAGAG
GCCACAGACAAATGCGACTGTGGCCCGGCGGCTGGTGGCCCGGGCCCTGGGACTCCAACACAAAAAGAAAGAGCG
GCCTGCTGTCCGGGGTCCGCTGCCGCCCTGAGGCCTGGAGACCCAACTGGCCTGGATCTGCGTCCCGACGTAGCT
GGCGCCCCAACACCATAAGCCTTCACAGACGCCAGAGCAGCCCCGCACCACCCTCGAGCTTCACCATGGGGTGT
GGTGGGCTTTAGTTTAGTCCCAGAAATGGAGAAAAAATAAAACTCACGTTGTTCT

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FIGURE 2524

MTQGTEDLKGPQRCENEPLLDVGPPEPLGPESQSGKGMVEMATRFGSTIQLDLEKGKESLLEKRLVAEEEEDE
EEVEEDGPSSCEDDYSELLQEITDNLTKKEIQIEKIHLDTSSFVEELPGEKDLAHVVEIYDFEPALKTEDLLAT
FSEFQEKGFRIQWVDDTHALGIFPCLASAAEALTREFSVLKIRPLTQGTKQSKLKALQRPKLLRLVKERPQTNAT
VARRLVARALGLQHKKKERPAVRGPLEPP

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FIGURE 2525

CAGGTACCTGGGGGTGGTTAAGTTGGTGACATGGCTCAGAAGTTTATTTCTTTAAATTTTAAAGTTTTTTTTCTT
TTAGTCTTCAGAAAGGCAACAGTAGTCTTTTAAACGTCAGTGTAAAAGTGTAAAGACTCTTTTACTCCCTGAGAG
TCCCTTTTCCCTTTCTTGCCTCCTTTCCCTCTTTATTTCTTTTTTTTTTTTTTTTTTTTTTTTACTGAGACGGAGTCTCAC
TCTGTGCGCCAGGCTGGAGTGCAGTGGCGCGATCTCGGCTCACTGCAAACCTCCGCCTCCCGGGTTACACCTTTCT
CTTTATTCTTATCCCGGTGAGACTCGCCCCCTCCTCCAAGACATCTCTCTGTTTTATTTTATTGATTTTAGTTTC
TCTTTGGGTGATCGCTCCTTCCCTCTTCAACGGATCCCTCCCGCCTCCATCCTCGTTCTGTGGGAGAGACCAGC
CTTCTGGTGCTGCAGTCAGGAATGGAGCTTGACAGCGCTCTGGAAGCCCCATCGCAGGAAGACTCTAATTTGTCC
GAGGAGTTGTCTCACTCCGCCTTTGGACAGGCCTTCTCCAAGATTTTACACTGTCTTGCCCGCCCGGAGGCACGA
CGAGGCAATGTAAAAGATGCAGTTCTTAAAGACCTCGGTGATCTAATAGAAGCCACAGAATTTGATAGGTTATTT
GAGGGGACTGGTGCACGGCTCCGCGGAATGCCGGAGACACTGGGGCAGGTAGCAAAGCCCTGGAGAAGTATGCA
GCCCCCTCCAAGGAGGAGGAAGGTGGAGGTGATGGGCACTCCGAAGCGGCCGAGAAAGCAGCCCAAGTTGGGTTA
CTGTTTCTTAAACGTGTTAGGGAAAGTTGAGACTGCTAAGAATTCCCTGGTGGGCCCTGCATGGCAGACGGGCCTG
CATCACTTGGCAGGACCCGTTTATATTTTGGCATCACACACAGCTTGGAGCAACCATGGACCACTCCGAGATCT
CGGGAAGTTGCTAGGGAGGTGCTCACCTCACTGCTTCAAGTTACTGAATGCGGTTCTGTGGCAGGATTCCTACAT
GGAGAAAATGAAGATGAGAAAGGGAGACTTTTCGGTGATACTAGGGCTTCTCAAACCCGACTTGTATAAGGAATCC
TGGAAGAATAACCCTGCCATCAAACATGTTTTCTCATGGACTCTGCAACAGGTCACTCGGCCCTGGCTGAGCCAG
CATCTGGAAGGGTACTTCCCGCATATTGGTCATTTAGATGACTATCAGACTGAGAACAAAATCCTGGGTGTA
CACTGTCTCCATCACATTGTGCTTAATGTG

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FIGURE 2526

ATGTCCGGGGGCAGCAGCTGCAGCCAGACCCCAAGCCGGGCCATCCCCGCCACTCGCCGGGTGGTGCTCGGCGAC
GGCGTGCAGCTCCCGCCCGGGGACTACAGCACGACCCCGGCGGCACCGTCTTCAGCACCACCCCGGGAGGTACC
AGGATCATCTATGACCGGAAATTCCTGATGGAGTGTGCGGAATCACCTGTGACCAAAACACCCCAAGGGATCTG
CCCACCATTCGGGGGGTCACCAGCCCTTCCAGTGATGAGCCCCCATGGAAGCCAGCCAGAGCCACCTGCGCAAT
AGCCCAGAAGATAAGCGGGCGGGCGGTGAAGAGTCACAGTTTGAGATGGACATTAA

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FIGURE 2527

AAGTGTCCCCTCCTACTTCTTGCTGCCTCACGGTTGCTGTTGCAGACCCAGGAGTCTCTGAAGGCTTCCGCGGCT
TTGGGGCCGTTGTGAGATGCCAGGCAGAGGCCGCTGCCCGGACTGCGGCTCCACGGAGCTGGTGGAACTCGC
ACTATTGCGAGAGCCAGCTGGTGTGCTCCGACTGCGGCTGCGTGGTCACCGAGGGGGTCTTACCACTACCTTCA
GCGACGAGGGCAATCTCCGAGAGGTAACATATTCCCGAAGCACAGGGGAAAACGAACAAGTTAGTCGCAGCCAGC
AACGAGGTCTCCGGCGAGTGAGAGACCTTTGTCGAGTTCTGCAGTTGCCACCAACATTGAGGATACCGCGGTTG
CCTACTACCAACAGGCATATCGGCACTCTGGCATCCGAGCGGCCAGGCTGCAAAAGAAGGAGGTGTTGGTTGGGT
GCTGCGTCTTAATCACCTGCCGACAGCATAACTGCCCCCTAACATGGGGGCCATCTGCACGCTGTTGTATGCAG
ATTTGGATGTGTTTTCTAGCACTTGCATGCAGATAGTGAAGCTCCTGGGACTGGATGTGCCATCTCTGTGCTTGG
CAGAACTGGTGAAGACCTATTGCAGCAGCTTCAAAGCTTCAAGCTTACCTTCTGTGCCAGCCAAATACGTGG
AAGACAAAGAGAAGATGCTGTCTCGAACAATGCAGTTGGTGGAGCTGGCAAATGAGACGTGGCTGGTGACCGGGA
GGCATCCCTTGCCCGTCATCACTGCTGCGACTTTCTGGCTTGGCAGTCGCTGCAGCCTGCAGATCGGCTTTTCAT
GTTCCCTTGCCCGATTTTGTAAATTGGCAAATGTGGACCTGCCCTACCCGGCGTCTCCCGCCTGCAGGAGCTGC
TGGCTGTGCTGCTGCGGATGGCTGAGCAGCTGGCCTGGTTACGAGTTCTGAGACTTGACAAACGGTCTGTGGTGA
AGCACATCGGTGACCTTCTCCAGCACCGCCAGTCACTGGTCCGCTCTGCCTTTCCGGATGGGACAGCAGAAGTGG
AGACCCGAGAGAAGGAGCCACCGGGGTGGGGACAGGGGCAAGGAGAAGGGGAGGTGGGAAATAATTCCTTAGGTT
TACCCAGGGGAAGCGGCCGGCCAGTCTGCCCTTCTCTTGCCACCTGTCATGTTGAAGTCCCCGAAGCGGATCT
GCCCTGTACCCCTGTCTCCACTGTCACTGGAGATGAGAACATTTCTGATAGTGAAATAGAACAGTATTTGCGTA
CCCCTCAGGAAGTTAGGGACTTTCAGAGAGCCCAGGCTGCTAGACAGGCTGCCACGAGTGTCCTAACCCCTCCCT
GATGGATATCCACTGGGAGCACTTCATCCTGTTCTGACAGCTTGATAACATTCCTGTTATAACCAAGGATGGAAG
TGTACACCAGTCCGTAGGTATTGCTTTTCTTGTTTGAAGGAACCAAGAGGGGCTCTGCCATTAGTTGGACCCTGG
GTCTGGAGTAAAGTCAGGAGTGCAGGGATGACTATAGGTAGGAGAGATTCCCATCCCTTGGTGTGGGAGAGCAA
GTTGCCTATGTCATGTTCTGTGAGATGGCTTTCTCATAGATGGATGGGAAAATGTCAGGCTCTTTGCTGCTGG
TTTGAATTGGACACACTGCTGCGGCTCCTCCTGCAGGCCTGAGGGGGCTTCCCTCTGCTTGTGGAGTGGTTGGCA
TTCCCAGCAGTATCAACCCTCAGAGGAGCGGGAAGTGGGGAATTCTGGCCCTACGTGCATTACAGGCAATGATG
GGTTTGTGTGATGGTGTGATGAGATCCTCTACCTCATAACAAAAGGACAGTGGGTAGACTAAGGCAGTAGCTCA
AAGGGCTTTGCAAAATTTAATATATTAACAAAGAGGCATCTGCTAGAAAACATTCTATTGTATAAAACCCGAG
TTCTT

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FIGURE 2528

MPGRGRCPDCGSTELVEDSHYSQSQLVCSDCGCVVTEGVLTTFSDDEGNLREVTYSRSTGENEQVSRSQQRGLRR
VRDLCRVLQLPPTFEDTAVAYYQQAYRHSGIRAARLQKKEVLVGCCVLITCRQHNWPLTMGAICTLLYADLDVFS
STYMQIVKLLGLDVP SLCLAE LVKTYCSSFKLFQASPSVPAKYVEDKEKMLSRTMQLVELANETWLVTGRHPLPV
ITAATFLAWQSLQPADRLSCSLARFCKLANVDLPYPASSRLQELLAVLLRMAEQLAWLRVLR LDKRSVVKHIGDL
LQHRQSLVRSAFRDGTAEVETREKEPPGWGQGQEGEVGNNSLGLPQGKRPASFALLLP CMLKSPKRICPVPPV
STVTGDENISDSEIEQYL RTPQEVRDFQRAQAARQAATSVNPP

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FIGURE 2529

TTCATTGCGCCAGTGACTAAAAAGAGAATTAAATATGGGTGATGTTGAGAAAGGCAAGAAGATTTTTATTATGAA
GTGTTCCCAGTGCCACACTGTTGAAAAGGGAGGAAAGCACAAAGATTGGGCCAAATCTCCATGGTCTTTTCAGGTG
GAAGACAGGTCAGGCCCTGGATACTCTTACACAGCCGCCAATAAGAACAAATGCATCATCTGGGGAGAGGATAC
ACTGATGGAGTATTTGGAGAATCCCAAGAAGTACATCCCTGGAACAAAAATGATCTTTGTCAGCATTAAAGAAGAA
GGAAGAAAGGGCAGACTTGATAGCTTATCTCAAAAAGCTACTAATGAGTAATAATTGGCCACTGCCTTATTTAT
TACTACACCAGAATTCAGATCATGAATGACTGACAGAATATTTT

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FIGURE 2530

GCGACCCCTCTTCTTTGCGTAGAGTTTTTCAGGTTGCTCCTGGAAACCATGCCGAAAGTAGTGTCTCGGTCAGTAG
TCTGCTCTGACACTCGGGACCGGGAGGAATATGACGACGGCGAGAAGCCCCTCCATGTGTACTACTGTTTGTGCG
GCCAGGTGGTTCCTAGTGCTGGACTGTCAAGTTAGAGAAATTGCCCATGAGGCCCCGGGACCGGTCCCCTGTGATTG
ATGCTGCCAAACATGCCCATTAAGTTTTGTAACACAGAAGACGAAGAGACTATGTATCTGCGGAGACCTGAAGGCA
TTGAACTACAGTACAGAAAGAAATGTGCAAAGTGTGGACTGCTGCTCTTCTACCAATCCCAGCCGAAGAATGCTC
CCGTTACCTTCATTGTGGATGGAGCAGTCGTCAAGTTTGGCCAGGGCTTTGGGAAAACGAACATATATACTCAGA
AACAAGAGCCTCCTAAGAAGGTGATGATGACCAAACGGACCAAAGACATGGGCAAGTTCAGTTCTGTCACTGTGT
CTACCATTGATGAAGAGGAAGAGGAGATTGAGGCTAGGGAAGTTGCTGACTCGTATGCACAGAATGCCAAAGTGA
TTGAAAACAGCTGGAGCGCAAAGGCATGAGCAAGAGGCCACTGCAAGAGCTGGCTGAATGGGAACCCAGGAAA
AGTGAAAATGAAGGGGACCCTTGATTGACAACCAAGTTCAAATAACCAGGCTTTTTTCTGAGCCCTAGACTGGAG
GCAAGCATTTAGATCAGGAGACAAAGTAACCTTCTTGATTACATAGACTGGTTCCTATTTATATCCCAGCAGAAGG
CTTTATGTTGTTTCCCATTGATTCTCCTACATGCAGTGAGGTCTTTAACTGAGTCCATTTGACCTGCTTCT

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FIGURE 2531

GGCGGCGGCAAGGGCGGGAGGGAGCGGTGCGCCGCGGGATTGGAGCTGCCTAGCCTCGCGGTGCTTTGGCAGCA
TGTAAGCAGCTGTTTGCCAAGAACCAGGTCACTGCTAAGAAAGGGTGCCCTTCGGGAGAAGAGTGTCCAGAGGAT
ACCAATGCCAGATGCATCTGGAGTTACACTCAGCACTCGCAGTATGAGACATTGTGTGCCAGCATCTCTTTCTTT
CTGGCAAAGACTGTAGCTCTCCAGGTAGGAGGATCCTGGAAGCTGTGAGCACCAGGAGCCTTGCCAGAGGAGGAT
GGGGCCAGATATGAACTCTCTACCATGAACATGGTTCTCGGCTTATGAAGGAATTTAAGTAAAACAGTTATTTA
ATTTCCACATATTCAAGTCAAAAGCCTTCTGTGTGAAGTGCCAGTGATTACCCCTCCACAGGAGTTATCAGGATT
TTTCTGGCACCAGTTTAATTCTTCTCGTACTTCTGGTAGTGACAGATCTGCAGGACAGATTTATCTGTTGAAT
GCTCTTGGGCAGGAAAACCATGTAAAACCTCTGGAAGCAGCATCAGGACAGCAGAGCAGAGCCCCGTCCTCACT
GCTCACTTGACAGAACTCCATCTGGACTCGGATGCTTTTACTGAAGACCCATCTAGCTTCAATCATCTTTAGA
GTCCATCCATTCTGGAGAGACCTGGCGTTTGCAAGTTGCCTCCTGTGGCCGTGTTTTCTGTCACTTCTGTTCCAG
GCCTTCTATTACAGGCGGTTGAAGGGTGTGGACTTTGGAATGGGGTTTGCTGTTCTTCGGGAACCTTGCTTCTTTT
CCTGGCTGGTGTCTGTCAGGAAGGACCATCTGAAGGCTGCAATTTGTTCTTAGGGAGGCAGGTGCTGGCCTGGCCT
GGATCTTCCACCATGTTTCTGTTGCTGCCTTTTGATAGCCTGATTGTCAACCTTCTGGGCATCTCCCTGACTGTC
CTCTTACCCCTCCTTCTCGTTTTTCATCATAGTGCCAGCCATTTTGGAGTCTCCTTTGGTATCCGCAAACTCTAC
ATGAAAAGTCTGTTAAAAATCTTTGCGTGGGCTACCTTGAGAAATGGAGCGAGGAGCCAAGGAGAAGAACCACAG
CTTTACAAGCCCTACACCAACGGAATCATTGCAAAGGATCCCACTTCACTAGAAGAAGAGATCAAAGAGATTCTGT
CGAAGTGGTAGTAGTAAGGCTCTGGACAACACTCCAGAGTTCGAGCTCTCTGACATTTTCTACTTTTGCCGGAAA
GGAATGGAGACCATTATGGATGATGAGGTGACAAAGAGATTCTCAGCAGAAGAACTGGAGTCTTGAACCTGCTG
AGCAGAACCAATTATAACTTCCAGTACATCAGCCTTCGGCTCACGGTCTGTGGGGTTAGGAGTGTGATTCTGG
TACTGCTTTCTGCTGCCGCTCAGGATAGCACTGGCTTTCACAGGGATTAGCCTTCTGGTGGTGGGCACAACCTGTG
GTGGGATACTTGCCAAATGGGAGGTTTAAGGAGTTTATGAGTAAACATGTTCACTTAATGTGTTACCGGATCTGC
GTGCGAGCGCTGACAGCCATCATCACTACCATGACAGGGAAAACAGACCAAGAAATGGTGGCATCTGTGTGGCC
AATCATACCTCACCGATCGATGTGATCATCTTGCCAGCGATGGCTATTATGCCATGGTGGGTCAAGTGCACGGG
GGACTCATGGGTGTGATTAGAGAGCCATGGTGAAGGCTGCCACACGCTCTGTTTGGCGCTCGGAAGTGAAG
GATCGCCACCTGGTGGCTAAGAGACTGACTGAACATGTGCAAGATAAAAGCAAGCTGCCTATCCTCATCTTCCCA
GAAGGAACCTGCATCAATAATACATCGGTGATGATGTTCAAAAAGGGAAGTTTGAATTTGGAGCCACAGTTTAC
CCTGTTGCTATCAAGTATGACCCTCAATTTGGCGATGCCTTCTGGAACAGCAGCAAATACGGGATGGTGACGTAC
CTGCTGCGAATGATGACCAGCTGGGCCATTGTCTGCAGCGTGTGGTACCTGCCTCCCATGACTAGAGAGGCAGAT
GAAGATGCTGTCCAGTTTGCGAATAGGGTGAATCTGCCATTGCCAGGCAGGGAGGACTTGTGGACCTGCTGTGG
GATGGGGGCTGAAGAGGGAGAAGGTGAAGGACACGTTCAAGGAGGAGCAGCAGAGAAGCTGTACAGCAAGATGATC
GTGGGAACCAACAAGGACAGGAGCCGCTCCTGAGCCTGCCTCCAGCTGGCTGGGGCCACCGTGCGGGGTGCCAAC
GGGCTCAGAGCTGGAGTTGCCGCCGCCGCCCCACTGCTGTGTCTTCCAGACTCCAGGGCTCCCCGGGTGCT
CTGGATCCCAGGACTCCGGCTTTCGCCGAGCCGACGCGGATCCCTGTGCACCCGGCGCAGCCTACCTTGGTGG
TCTAAACGGATGCTGCTGGGTGTGCGACCCAGGACGAGATGCCCTTGTCTTTTACAATAAGTCTGTTGGAGGAA
TGCCATTAAAGTGAATCCCCACCTTTGCACGCTGTGCGGGCTGAGTGTTGGGGAGATGTGGCCATGGTCTTGT
GCTAGAGATGGCGGTACAAGAGTCTGTTATGCAAGCCCGTGTGCCAGGGATGTGCTGGGGGCGGCCACCCGCTCT
CCAGGAAAGGCACAGCTGAGGCACTGTGGCTGGCTTCGGCCTCAACATCGCCCCAGCCTTGGAGCTCTGCAGAC
ATGATAGGAAGGAACTGTCTATCTGCAGGGGCTTTCAGCAAAATGAAGGGTTAGATTTTATGCTGCTGCTGATG
GGGTTACTAAAGGGAGGGGAAGAGGCCAGGTGGGCCGCTGACTGGGCCATGGGGAGAACGTGTGTTCTGTTCTCA
GGCTAACCTGAATCCCCATGTGATGCGCGCTTGTGTAATGTGTGCTCGGTTTCCCCATCTGTAATATGAGT
CGGGGGGAATGGTGGTGAATCTTACCTCACAGGGCTGTTGTGGGGATTAAAGTGTGCGGGTGAAGTGAAGGACAC
ATCACGTTCACTGTTTCAAGTACAGGCCACAAAACGGGGCACGGCAGGCCTGAGCTCAGAGCTGCTGCACTGGG
CTTTGGATTGTCTTGTGAGTAAATAAACTGGCTGGTGAATG

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FIGURE 2532

MFLLLPFDSLIVNLLGISLTVLFTLLLVFIIVPAIFGVSGIRKLYMKSLLKIFAWATLRMERGAKEKNHQLYKP
YTNGIIAKDPTSLEEEIKEIRRS GSSKALDNTPEFELSDIFYFCRKG METIMDDEVTKRFS AEELSWNLLSRTN
YNFYISLRLTVLWGLGVLIRYCFLLPLRIALFTGISLLVVGTTVVGYLPNGRFKEFMSKHVHLMCYRICVRAL
TAIITYHDRENRP RGGICVANHTSPIDV IILASD GYYAMVGQVHGGLMGVIQ RAMVKACPHVWFERSEVKDRHL
VAKRLTEHVQDKSKLPILIFPEGTCINNTSVMMFKKGSFEIGATVYPVAIKYDPQFGDAFWNSSKYGMVTYLLRM
MTSWAIVCSVWYLPPMTREADEDAVQFANRVKSAIARQGGLVDLLWDGGLKREKVKDTFKEEQQLYSKMIVGNH
KDRSRS

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FIGURE 2533

GAACCCTAGGTTGTTGGATGATGTCAGCTTCCATCCTTGTTGTTTCGTTTCAAACGCTGGGAATCTGAGCGCATCCT
CTCCTTCATCCTCCTGATGGAACTTCCGCCTGCTGTCTTACCATGTCAGTGCACAGAATCTGGTTGCAATCCC
AGTGTATGTCAAACATAACATCAGTTTCCGGGACAGTAGTTCCCTTGGACGCTTTGAAATAACGGTGGGACCCAA
GCAGACGATGGGGAAGACCATTGAGGGAGTGATTGTCACCAGCCAGATGCCCAAGGGGGTCTGAACATGAGCCT
TACTCCATCACAGGGGACACACATTGACCCAGTCACAAAGATGCTGTCTTGGGATGTAGGAAAAATAAATCC
ACAAAAGCTACCAAGTTTGAAGGGGACCATGAGTCTTCAGGCTGGAGCTTCCAAACCAGATGAAAACCCCAAT
TAACCTGCAGTTTAAAGATCCAGCAGCTGGCCATTTCTGGACTCAAGGTGAATCGTCTGGATATGTATGGAGAAAA
GTACAAACCCTTTAAAGGCATAAAATACATGACCAAAGCTGGGAAGTTCCAAGTTCGAACCTGAAGGGAGCATT
GCTGAGGGAATAGTCTTGACATTTTTTTCATTTCTTACTTGCTTAAAAGTAAAAAAAATATCAGCCTGTCTCCT
AGGTGAGTCCCTCCTGGACCCACCCGCTCCCTTTTTTCTTACGCTTCAGTGCCATGGAACATAACAGGGAGG
AAAAGGTACACAGGGAGAACTGGACAGAACTGAAACACAGCAACACCAGTTCTCAAGGACAAGGTGTGTATGGG
GGTAGGAAGCTTGGTGCTTATGTAACCATTTTAAACGTGGTTTCTATAGGAAAGACCAACATTTGTTTAGCTTGC
TTGGCTTTAATTATCTAAAGCCAATGAAAGACTTCTTTGTTGATTTTTTAAGATAGAAAGATTAAAAAGAAAGAA
AGATGGGAAGAAAATGAATGTTAGTCAAGGAAAGGCCACTTAAAGATCTGCTCTATGAAGGAGAAGAAAGAGGAA
AAAGAAGTAAAGGAGTTAGGAGGAGACACTTAAATGAAAGATTGGCAAGAAAAGCAGTCGGACTCTACCTTAAGG
AGGGATGGGAAGGAAAGAGTTGAGTTGGTTTCTTCTGATTCTCTACTCATGTAGAAAACACTTGTACTTCTGG
AAATGGACTGGAGACTTTTTAAATTTGAGTCCACTATTGACATGGAAACCCAGTGGAAATCAGATTTTCCCTCAA
AGACCATGATGGTATCGGACTAGTTTTTCAGACACTGCCTGTTGCTGTCCATCAGCACTTGGTCTCTTATCTTCAG
TGAGAAGGTGACCCGCTTCTTCCCATGGTGGCTGCCTAAAGTGCTTCTTTTCTAACCCAAAACAGTTCTACTCA
CTTCTTTTACAGAATTCACCGGCCATTTTCTGTTACCTGATCCTTCTACAGGATTTTTTAAAAAGTAAGAGAGT
TTCAGAGAAGCCGATCCCATAAATCCCCAGTGACGCCAGGGTTTGTGTGTCTCGTACTGGAGTAGAGGGCCGACT
CTTCCCATGAAGGTGAGCACAGCTGTGAGTGAGTGAGCTCATATCTCCATTTGTCAGTGCTGGACTGGTACCAGA
TCGTAACCTTCCCGTTGGTCGGAACTTTTCCATCTGTGCGCCCTAGAAAAAGAGAAAGCTTACCATCGAGGGTGT
GGTTGATCCTTGAAGCTGCTTGGTAAAGTTATCATTTCCTCAGTCTTTTCTTTTGTACTCCTAICATGTATTAT
TAATACTACCAAGTCCCTTTTCATTCTAAGACAAAACATTTCTCCTAAATCTCTGAATAAAATCAGTGCTGTAGG
AAGATGGACTGTGTTGATCATGGGTGTAAGCAACCCAGTTTAAAGAAACATGGCAACTAAAGGGATACCTCAGGCT
TCTTTCCAGTGGGTCATTTTGTCTAGTTCAGTGTGTCTGTACTATTTAAATATTTATACAAAAGGGTTTT
TGTTTATAGCTTAAGGAATGATACTGTGCTCTGCTTGGTGCATGGAGAAAAAGGAAGACCCATACTCTCCACACC
CTAGAGCTTTTCTCTAAATATTGTGCAAGTTTTTGCTAGTTTTATCTTCTGACTTTGGGACTAGTTTTTGTCTGC
AGAGTTGTGTTGCTTTTGTGATTTTCTCTGGGATAGTGTACTGTACACAACCAGATGTGTTCCACACTCCGTGAC
TCCGCAGTTTGTCTGGAGTGACATACATCCACCATGGAAGGGAAGCATCTCTGCCTGTGGATTCTCAAGTA
CTTGAAGCACCTCTCTGAGGAACCTACAGGATTCTAAGGTTTCTAGGTCAGTGAACAATACTTTGGTCCC
TGAATATTTCTAGGTTTGTAAAGTGCAGCAGTTTATTTCTCTAGAACTCATCTGTTTCAAGGGAAGTACCTAA
GAAGATATAGAGTGTCTAGGGTAAGGGACCTGCAGGTGTAAGCATAGATGAAATAACTGTCTGTACACAGTG
CAGCAGGCCATGGAGTGTAGCGGGCATCGCTGCCGCCATTCTGCAGCATACCATAAGCAGTGCAGGGTGTCTC
CATCGAGCTGTTTGGTTCCATGTGTGTTTAAACATGTGCAGAAGTAGCTTCTGTTTAAGTTTAAATAAGTTGAG
TTTACCAAGTC

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FIGURE 2534

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCACCCCTGCC
TGGAAACTTAAGGAGGCCGGAGCTGTGGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA
CCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATCATCGATGCAATGAAGAG
AGGGCTCTGCTGTGTGCTGCTGCTGTGTGTGGAGCAGTCTTCGTTTCGCCAGCCAGGAAATCCATGCCCCGATTTCAG
AAGAGGAGCCAGATCTTACCAAGTGATCTGCAGAGATGAAAAAACGCAGATGATATACCAGCAACATCAGTCATG
GCTGCGCCCTGTGCTCAGAAGCAACCGGGTGGAAATATTGCTGGTGCAACAGTGGCAGGGCACAGTGCCACTCAGT
GCCTGTCAAAAGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGCCCTGTACTTCTCAGATTT
CGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGCTGTGAAATAGATACCAGGGCCACGTGCTACGAGGACCA
GGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGCACCAACTGGAACAGCAGCGCGTT
GGCCAGAAAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCTGGGGAACCACAACACTACTGCAGAAA
CCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGGAAGTACAGCTCAGAGTTCTGCAGCACCCC
TGCCTGCTCTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTACGCCTACCGTGGCACGCACAGCCTCACC
GTCGGGTGCCTCCTGCCTCCCGTGGAAATTCATGATCCTGATAGGCAAGGTTTACACAGCACAGAAACCCAGTGC
CCAGGCACTGGGCTGGGCAAACATAATTACTGCCGAATCCTGATGGGGATGCCAAGCCCTGGTGCCACGTGCT
GAAGAACCGCAGGCTGACGTGGGAGTACTGTGATGTGCCCTCCTGCTCCACCTGCGGCCTGAGACAGTACAGCCA
GCCTCAGTTTCGCATCAAAGGAGGGCTCTTCGCCGACATCGCCTCCACCCCTGGCAGGCTGCCATCTTTGCCAA
GCACAGGAGGTGCGCCGGAGAGCGGTTCTGTGCGGGGGCATACTCATCAGCTCCTGCTGGATTCTCTCTGCCGC
CCACTGCTTCCAGGAGAGGTTTCCGCCCCACCCTGACGGTGATCTTGGGCAGAACATACCGGGTGGTCCCTGG
CGAGGAGGAGCAGAAATTTGAAGTCGAAAAATACATTGTCCATAAGGAATTCGATGATGACACTTACGACAAATGA
CATTGCGCTGCTGCAGCTGAAATCGGATTTCGTCCCGCTGTGCCAGGAGAGCAGCGTGGTCCGCACTGTGTGCC
TCCCCGGCGGACCTGCAGCTGCCGGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCATGAGGCCTTGT
TCCTTTCTATTTCGGAGCGGCTGAAGGAGGCTCATGTCAGACTGTACCCATCCAGCCGCTGCACATCACAACATT
ACTTAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGCGGGCCCCAGGCAAACCTTGCA
CGACGCCTGCCAGGGCGATTTCGGGAGGCCCCCTGGTGTGTCTGAACGATGGCCGCATGACTTTGGTGGGCATCAT
CAGCTGGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGTGTGTACACCAAGGTTACCAACTACCTAGACTGGAT
TCGTGACAACATGCGACCGTGACCAGGAACACCCGACTCCTCAAAGCAAATGAGATCCCGCTCTTCTTCTTCA
GAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACACCGCAGAAGCGGGACGAGACC
CTACAGGAGAGGGAAGAGTGCATTTTCCAGATACTTCCATTTTGGAAAGTTTTCAGGACTTGGTCTGATTTTCAG
GATACTCTGTCAGATGGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTGGGCAGAAAGTGG
CCATGCCACCTGTTTTTCAGCTAAAGCCCAACCTCCTGACCTGTACCGTGAGCAGCTTTGGAAACAGGACCACA
AAAATGAAAGCATGTCTCAATAGTAAAGATAACAAGATCTTTTCAGGAAAGACGGATTGCATTAGAAATAGACAG
TATATTTATAGTCACAAGAGCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCCGTCATGTTCTCTCAAAA
GCACCCCTTGACGTCAAGTCTCCTTCCCCTTTCCCACTCCCTGGCTCTCAGAAGGTATTCCCTTTTGTGTACAGTG
TGTAAGTGTAATCCTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTGAACAACCTAGGCT
TCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTTCTGTTGCCACAACCCCTGTTTTTACTGTACTTAATAA
ATTCAGATATATTTTTCACAGTTTTTCC

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FIGURE 2535

MDAMKRG LCCVLLLCGAVFVSPSQEI HARFRRGARSYQVICRDEKTQMIYQQHQSWLRPVLR SNRVEYCW CNSGR
AQCHSV PVKSCSEPRCFNGGTCQQALYFSD FVCQCEGFAGKCCEIDTRATCYEDQG ISYRGTWSTAESGAECTN
WNSSAL AQKPYSGRRPDAIRLGLGNHNYCRNPDRDSKPWCYVFKAGKYSSEFCSTPACSEGNSDCYFGNGSAYRG
THSLTESGASCLPWNSMILIGKVYTAQNPSA QALGLGKHNYCRNPDGDAKPWCHVLKNRRLTWEYCDVPSCSTCG
LRQYSQPQFRIKGGLFADIASHPWQA AIFAKHRRSPGERFLCGGILISSCWILSAAHCFQERFPPHHLTIVILGRT
YRVVPGE EEQKFEVEKYIVHKEFDDDTYDNDIAL LQLKSDSSRCAQESSVVRTVCLPPADLQLPDWTECELSGYG
KHEALSPFYSERLKEAHVRLYPSSRCTSQHLLNRTVTDNMLCAGDTRSGGPQANLHDACQGD SGGPLVCLNDGRM
TLVGII SWGLGCGQKDVPGVYTKVTNYLDWIRDNM RP

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FIGURE 2536

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCACCCCTGCC
TGGAACTTAAGGAGGCCGGAGCTGTGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA
CCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGAATTTAAGGACGCTGTGAAGCAATCATGGATGCAATGAAGAG
AGGGCTCTGCTGTGTGCTGCTGTGTGTGGAGCAGTCTTCGTTTCGCCCAGCCAGGAAATCCATGCCCGATTACG
AAGAGGAGCCAGATCTTACCAAGTGATCTGCAGAGATGAAAAACGCAGATGATATACCAGCAACATCAGTCATG
GCTGCGCCCTGTGCTCAGAAAGCAACCGGGTGAATATTGCTGGTGCAACAGTGGCAGGGCACAGTGCCACTCAGT
GCCTGTCAAAGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGCCCTGTACTTCTCAGATTT
CGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGCTGTGAAATAGATACCAGGGCCACGTGCTACGAGGACCA
GGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGCACCAACTGGAACAGCAGCGCGTT
GGCCCAGAAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCACAACCTACTGCAGAAA
CCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGGAAGTACAGCTCAGAGTTCTGCAGCACCCC
TGCCTGCTCTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTCAGCCTACCGTGGCACGCACAGCCTCACCGA
GTCGGGTGCCTCCTGCCTCCCGTGGAATTCATGATCCTGATAGGCAAGGTTTACACAGCACAGAACCCAGTG
CCAGGCACTGGGCCTGGGCAAACATAATTACTGCCGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCAT
GAGGCCCTGTCTCCTTTCTATTTCGGAGCGGCTGAAGGAGGCTCATGTTCAGACTGTACCCATCCAGCCGCTGCACA
TCACAACATTTACTTAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGGGGCCCCAG
GCAAACTTGCACGACGCCCTGCCAGGGCGATTTCGGGAGGGCCCCCTGGTGTGTCTGAACGATGGCCGCATGACTTTG
GTGGGCATCATCAGCTGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGGTGTGTACACCAAGGTTACCAACTAC
CTAGACTGGATTTCGTGACAACATGCGACCGTGACCAGGAACACCCGACTCCTCAAAAGCAAATGAGATCCCGCCT
CTTCTTCTTCAGAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACCCGAGAAGC
GGGACGAGACCCTACAGGAGAGGGAAGAGTGCAATTTCCAGATACTTCCATTTTGGAAAGTTTTCAGGACTTGG
TCTGATTTTCAGGATACTCTGTTCAGATGGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTGG
GCAGAAAGTGGCCATGCCACCCTGTTTTTCAGCTAAAGCCCCAACCTCCTGACCTGTCACCGTGAGCAGCTTTGGAA
ACAGGACCACAAAAATGAAAGCATGTCTCAATAGTAAAAGATAACAAGATCTTTCAGGAAAGACGGATTGCATTA
GAAATAGACAGTATATTTATAGTCACAAGAGCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCCGTCAT
GTTCTCATAAAGCACCCCTTGACGTCAAGTCTCCTTCCCCTTCCCCACTCCCTGGCTCTCAGAAGGTATTCTTTT
TGTGTACAGTGTGTAAAGTGTAATCCTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTTGA
ACAACTAGGCTTCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTTCTGTTGCCACAACCCTGTTTTTACT
GTACTTAATAAATTCAGATATATTTTTTACAGTTTTTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2537

MDAMKRGLCCVLLLCGAVFVSPSQEI HARFRRGARSYQVICRDEKTQMIYQQHQSWLRPVLR SNRVEYCW CNSGR
AQCHSV PVKSCSEPRCFNGGTCQQALYFSDFVCQCEGFAGKCCEIDTRATCYEDQG ISYRG TWSTAESGAECTN
WNSSALAQKPYSGRRPDAIRLGLGNHNYCRNPDRDSKPWCYVFKAGKYSSEFCSTPACSEGNSDCYFGNGSAYRG
THSLTESGASCLPWNSMILIGKVYTAQNPSA QALGLGKHNYCRTGRSVSSPATASMRPCLLSIRSG

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FIGURE 2538

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCACCCCTGCC
TGGAACTTAAGGAGGCCGGAGCTGTGGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA
CCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATCATGATGCAATGAAGAG
AGGGCTCTGCTGTGTGCTGCTGCTGTGTGGAGCAGTCTTCGTTTCGCCCAGCCAGGAAATCCATGCCCGATTAG
AAGAGGAGCCAGATCTTACCAAGGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGCCCTGTA
CTTCTCAGATTTTCGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGTGTGAAATAGATACCAGGGCCACGTG
CTACGAGGACCAGGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGCACCAACTGGAA
CAGCAGCGCGTTGGCCAGAAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCACAA
CTACTGCAGAAACCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGGAAGTACAGCTCAGAGTT
CTGCAGCACCCTGCCTGCTCTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTCAGCCTACCGTGGCAGCA
CAGCCTCACCAGATCGGGTGCCCTCTGCTCCCGTGGAATTCATGATCCTGATAGGCAAGGTTTACACAGCACA
GAACCCCACTGCCCAGGCACTGGGCCTGGGCAACATAATTACTGCCGAATCCTGATGGGGATGCCAAGCCCTG
GTGCCACGTGCTGAAGAACCAGGCTGACGTGGGAGTACTGTGATGTGCCCTCCTGCTCCACCTGCCGCCCTGAG
ACAGTACAGCCAGCCTCAGTTTCGCATCAAAGGAGGGCTCTTCGCCGACATCGCCTCCACCCCTGGCAGGCTGC
CATCTTTGCCAAGCACAGGAGGTCGCCCCGAGAGCGGTTCCCTGTGCGGGGGCATACTCATCAGCTCCTGCTGGAT
TCTCTCTGCCGCCCACTGCTTCCAGGAGAGGTTTCCGCCCCACCACCTGACGGTGATCTTGGGCAGAACATAACCG
GGTGGTCCCTGGCGAGGAGGAGCAGAAATTTGAAGTCGAAAAATACATTGTCCATAAGGAATTCGATGATGACAC
TTACGACAATGACATTGCGCTGCTGCAGCTGAAATCGGATTTCGTCCCGCTGTGCCCAGGAGAGCAGCGTGGTCCG
CACTGTGTGCCCTTCCCCGGCGGACCTGCAGCTGCCGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCA
TGAGGCCTTGTCTCCTTTCTATTTCGGAGCGGCTGAAGGAGGCTCATGTCAGACTGTACCCATCCAGCCGCTGCAC
ATCACAACATTTACTTAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGCGGGCCCA
GGCAAATTCACGACGCCTGCCAGGGCGATTCCGGAGGCCCCCTGGTGTGTCTGAACGATGGCCGCATGACTTT
GGTGGGCATCATCAGCTGGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGTGTGTACACCAAGGTTACCAACTA
CCTAGACTGGATTTCGTGACAACATGCGACCGTGACAGGAACACCCGACTCCTCAAAGCAAATGAGATCCCGCC
TCTTCTTCTTCAGAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACACCGCAGAAG
CGGGACGAGACCCTACAGGAGAGGGAAGAGTGCATTTCCAGATACTTCCCATTTTGGAAGTTTTCAGGACTTG
GTCTGATTTTCAGGATACTCTGTGATGGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTG
GGCAGAAAGTGGCCATGCCACCCTGTTTTTCAGCTAAAGCCCCAACCTCCTGACCTGTCACCGTGAGCAGCTTTGGA
AACAGGACCACAAAAATGAAAGCATGTCTCAATAGTAAAAGATAACAAGATCTTTTCAGGAAAGACGGATTGCATT
AGAAATAGACAGTATATTTATAGTCACAAGAGCCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCCGTCA
TGTTCTCTCAAAGCACCCCTTGACGTCAAGTCTCCTTCCCCTTTCCCCTCCTGCTCTCAGAAGGTATTTCCTT
TTGTGTACAGTGTGTAAAGTGTAATCCTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTTG
AACAACTAGGCTTCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTTCTGTTGCCACAACCCTGTTTTATAC
TGTACTTAATAAAATTCAGATATATTTTTCACAGTTTTTCCAAAAA

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FIGURE 2539

MDAMKRGLCCVLLLCGAVFVSPSQEIHARFRRGARSYQGCSEPRCFNGGTCQQALYFSDFVCQCPEGFAGKCCEI
DTRATCYEDQGISYRGTWSTAESGAECTNWNSSALAQKPYSGRRPDAIRLGLGNHNYCRNPDRDSKPWCYVFKAG
KYSSEFCSTPACSEGNSDCYFGNGSAYRGTHSLTESGASCLPWNSMILIGKVYTAQNPSAQALGLGKHNYCRNP
GDAKPWCHVLKNRRLTWEYCDVPSCSTCGLRQYSQPQFRIKGGLFADIASHPWQAAIFAKHRRSPGERFLCGGIL
ISSCWILSAAHCFQERFPPHHLTVILGRTRYRVPGEEQKFEVEKYIVHKEFDDDTYDNDIALQLKSDSSRCAQ
ESSVVRTVCLPPADLQLPDWTECELSGYGKHEALSPFYSERLKEAHVRLYPSSRCTSQHLLNRTVTDNMLCAGDT
RSGGPQANLHDACQGDGGPLVCLNDGRMTLVGIISWGLGCGQKDVPGVYTKVTNYLDWIRDNMRP

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FIGURE 2540

GGAGGGGCGGGGCCTCCGCCACCACCTCAGCTGCGGACCGAGGCGAGATGGCGGCCACCGAGGGGGTCGGGGAGG
CTGCGCAAGGGGGCGAGCCCGGGCAGCCGGCGCAACCCCGCCCCAGCCGCACCCACCGCCGCCCCAGCAGCAGC
ACAAGGAAGAGATGGCGGCCGAGGCTGGGGAAGCCGTGGCGTCCCCCATGGACGACGGGTTTGTGAGCCTGGACT
CGCCCTCCTATGTCCTGTACAGGGACAGAGCAGAATGGGCTGATATAGATCCGGTGCCGCAGAATGATGGCCCCA
ATCCCGTGGTCCAGATCATTATAGTGACAAATGTAAGTTTTTATGATTACTTCCGAGCTGTCTGCAGCGTGA
TGAAAGAAGTGAACGAGCTTTTAAGCTAACCCGGGATGCTATTGAGTTAAATGCAGCCAATTATACAGTGTGGCA
TTCCGGAGAGTTCTTTTGAAGTCACTTCAGAAGGATCTACATGAGGAAATGAACTACATCACTGCAATAATTGA
GGAGCAGCCCCAAAACATCAAGTTTGGCATCATAGGCGAGTATTAGTGAATGGCTAAGAGATCCATCTCAGGA
GCTTGAATTTATTGCTGATATTCTTAATCAGGATGCAAAGAATTATCATGCCTGGCAGCATCGACAATGGGTTAT
TCAGGTATT

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FIGURE 2541

AACTTTTAAAACTCTCATTGGAGTAAGTCTTTTCAAGATGATCCTCCACAATGGAGGCAGCGTTCCTACTTGTC
ATCACACAGCTGAAGACATTGTTTCTTAGGTGTGAAATCGGGGACAAAGGACAAACAGAGACACACGGCATTGTT
CATGGGAGGCATCGTCACCCTCCTGGGTGTTCTGTGGGAATTTCTGTGTGAGGAAAACGTGGCCACAGGGTGT
GCTGTACCCACCCTTCCCCGGCGAGATGGCCCTCGGCCTGTGCCGCTGCTTCCACCCTCGCCACTCCATGGCAGC
TTTTGGTCTGTTTCCGGCTCTGCCCTCTGCCCTGAACTCTCATCCGGCTTGTACCTGCCTGCTGGACCCCTCCAC
CTGGAGGCCAGCCCATGTCTCAGGCCAGCCCTAGCCTCTTCTCCTCAAATTCTAAGTGTTTTCTCTTTAGGTTT
CCCTGGCTTTGTGAATGGATCAIGTGTCTCTAGGTATAAACCTGACATCATCTTCCACCCGGCTTACCTCCACC
AGATCTCCCCAGTTCTGTCTCCATCTTCTGCCTGCAGCTGCTCTGTTCTCATGGTCACTGCTGCATCACTGAGTC
TGGACCCCTTGTTATCATTTTCAAACCTGGCCTCCTTCCCTCGTTCCCCACTTCTTAAAGTCACCTGTCCATTGCCA
CCAGATTAAAGCTTTCTCCAGCCAGATCACCTCTCTCTGAGAAACCTCCATTGACATGGAAACACCATTGTCTGGC
ACACATACTCACATACCCACCTTCCCGTCTTGATCCCCACACATCTTCCAGCCTCCCCTCCCACTCCACTCCCT
GCTCTCTCCTCCACCTCCCCATCCTCTTGTCTCCCTCCCTCTGAATCCAGCCCAGCGGGGCTTCTCCTGCCTC
CATCACATCACAGAAGTACCTCCTGCTTCTGGTTTTAATTAGAGCCTTCCCCGATTACATTTTCTCTGAATTTT
TTCTATCTACATTTGATCTGTCTATGTTTAAACCCCTACTTCTAAGGGAACCTCTCTAATCTCTTATCCTCATC
CCCAAATAGTGTTTTCTTCTCTGGGTCTTATAATGTTGGTATCAATCTCACAGCATTTAGTGCTTCTGCCTG
GTGTGACAGTTACCTGTGTGCAATTTCTAATTTCCACGCTAGACTGTGAGCTTCCTAAGGCAAGAATC
ATGCCTCGTTGGTTTCTGTATTCTCATGGTGCCAAACACAGTGCCTTCTACATTGCAGGCGCTGAATAACATT
TTTAAAGCAAAAAAAAAAAAAAAAAA

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FIGURE 2542

MALGLCRCFHPRHSMAAFGLFPALPSALNSHPACTCLLDPSTWRPAHVSGPALASSPQILSVFSLGFPGFVNGSC
VSRYPDIIFPPGLPPPDLPSSVSIFCLQLLCSHGHCITESGPLLSFSNWPPSLVPHFLKSPVHCHQIKLSPAR
SPLSEKEPPLTWKHHCLAHILTYPPSRDPHTSFQPPLPLHSLLSPPPPHPLVSPPL

FIGURE 2543A

[illegible]

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FIGURE 2543B

ACCCTGGATGAGCGACTTCAAAGTGGAGTTCCTGAGAAATGAGCTGGAGATTCCCGGTCAGTATGACGGTAGGGG
AAAGCCATTGCCAGAGTACCACGTGCGAATCGCCGGGTTTGATGAGCGGGTGACAGTCATGGCGTCTCTGCGAAG
GCCCCAAGCGCATCATCATCCGTGGCCATGACGAGAGGGGAACACCCCTTTCTGGTGAAGGGTGGCGAGGACCTGCG
GCAGGACCAGCGCGTGGAGCAGCTCTTCCAGGTCATGAATGGGATCCTGGCCCAAGACTCCGCCTGCAGCCAGAG
GGCCCTGCAGCTGAGGACCTATAGCGTTGTGCCCATGACCTCCAGGTTAGGATTAATTGAGTGGCTTGAAAATAC
TGTTACCTTGAAGGACCTTCTTTTGAACACCATGTCCCAAGAGGAGAAGGCGGCTTACCTGAGTGATCCCAGGGC
ACCGCCGTGTGAATATAAAGATTGGCTGACAAAAATGTGAGGAAAACATGATGTTGGAGCTTACATGCTAATGTA
TAAGGGCGCTAATCGTACTGAAACAGTCACGTCTTTTAGAAAAACGAGAAAGTAAAGTGCCTGCTGATCTCTTAAA
GCGGGCCTTCGTGAGGATGAGTACAAGCCCTGAGGCTTTCTGGCGCTCCGCTCCCACTTCGCCAGCTCTCACGC
TCTGATATGCATCAGCCACTGGATCCTCGGGATTGGAGACAGACATCTGAACAACCTTTATGGTGGCCATGGAGAC
TGGCGGCGTGATCGGGATCGACTTTGGGCATGCGTTTGGATCCGCTACACAGTTTCTGCCAGTCCCTGAGTTGAT
GCCTTTTCGGCTAACTCGCCAGTTTATCAATCTGATGTTACCAATGAAAGAAACGGGCCTTATGTACAGCATCAT
GGTACACGCACTCCGGGCCTTCCGCTCAGACCCCTGGCCTGCTCACCAACACCATGGATGTGTTTGTCAAGGAGCC
CTCCTTTGATTGGAAAAATTTTGAACAGAAAATGCTGAAAAAAGGAGGGTCATGGATTCAAGAAATAAATGTTGC
TGAAAAAAATTGGTACCCCCGACAGAAAATATGTTACGCTAAGAGAAAGTTAGCAGGTGCCAATCCAGCAGTCAT
TACTTGTGATGAGCTACTCCTGGGTCATGAGAAGGCCCTGCCTTCAAAGACTATGTGGCTGTGGCACGAGGAAG
CAAAGATCACAACATTCGTGCCCAAGAACCAGAGAGTGGGCTTTCAGAAGAGACTCAAGTGAAGTGCCTGATGGA
CCAGGCAACAGACCCCAACATCCTTGGCAGAACCTGGGAAGGATGGGAGCCCTGGATGTGA

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FIGURE 2544

GGAGTCCGCGAGCGTCGTCGGCAAGCGGCCGCTTTCCACGGTAACCGCGCGCCGGCGGGGAGGGCGTGGCGCGG
AGCCGACGGGAACGTCCGCGCTGCGGAGCAGGGCAGGGAAGCCGGGAGGCGGGCCCGCCGAGCTTGTCCTTGT
CGCGCAGGTACTCCGAGCACTATGTCGTCCCCGCGCTCGACCCCGAGCCGCGCGGAGCCGGCGTGGAAAGGGCC
ACCCCGCCCGAGACGCCTCGGAGTGAGGATGCCAGGTTCATCTCCCTCTCAGAGACGTAGAGGCGAGGATTCCACC
TCCACGGGGGAGTTGCAGCCGATGCCAACCTCGCCTGGAGTGGACCTGCAGAGCCCTGCTGCGCAGGACGTGCTG
TTTTCCAGCCCTCCCCAAATGCATTCTTCAGCTATCCCTCTTGACTTTGATGTTAGTTCAACACTGACATACGGC
ACTCCAGCTCTCGGGTAGAGGGAACCCCAAGAGTGGTGTAGGGGCACACCTGTGAGACAGAGGCCCTGACCTG
GGCTCTGCACAGAAGGGCCTGCAAGTGGATCTGCAGTCTGACGGGGCAGCAGCAGAAGATATAGTGGCAAGTGAG
CAGTCTCTAGGCCAAAACTTGATCTGGGGAACAGATGTAAATGTGGCAGCATGCAAGAAAACTTTCAGAGA
TTTCTTCAGCGTTTTATTGACCCCTCGGCTAAAGAAGAAGAAAATGTTGGCATAGATATTACTGAACCTCTATAC
ATGCAACGACTTGGGGAGATTAATGTTATTGGTGAGCCATTTTAAATGTGAACGTGAACACATCAATCATT
GACAAAAATTTGTACAGACAACTCATCTCTTACCCACAGGAAGTTATTCCAACCTTTTGACATGGCTGTCAATGAA
ATCTTCTTTGACCGTTACCCGTACTCAATCTTAGAACATCAGATTCAAGTAAGACCATTCAACGCATTGAAGACT
AAGAATATGAGAAACCTGAATCCAGAAGACATTGACCAGCTCATCACCATCAGCGGCATGGTGATCAGGACATCC
CAGCTGATTCCCGAGATGCAGGAGGCCCTTCTTCCAGTGCCAAGTGTGTGCCACACGACCCGGGTGGAGATGGAC
CGCGGCCGCAATTGCAGAGCCAGTGTGTGCGGGCGCTGCCACACCACCCACAGCATGGCACTCATCCACAACCGC
TCCCTCTTCTCTGACAAGCAGATGATCAAGCTTCAGGAGTCTCCGGAAGACATGCTGCAGGGCAGACACCACAC
ACAGTTATCTGTGTTGCTCACAATGATCTCGTTGACAAGGTCCAGCCTGGGGACAGAGTGAATGTTACAGGCATC
TATCGAGCTGTGCCTATTTCGAGTCAATCCAAGAGTGAGTAATGTGAAGTCTGTCTACAAAACCCACATTGATGTC
ATTCAATTATCGGAAAACGGATGCAAAACGTCTGCATGGCCTTGATGAAGAAGCAGAACAGAACTTTTTTCAGAG
AAACGTGTGGAATTGCTTAAGGAACCTTCCAGGAAACCAGACATTTATGAGAGGCTTGCTTCAGCCTTGGCTCCA
AGCATTATGAACATGAAGATATAAAGAAGGGAATTTTGCTTCAGCTCTTTGGCGGGACAAGGAAGGATTTAGT
CACACTGGAAGGGGCAAATTCGGGCTGAGATCAACATCTTGCTGTGTGGCGACCCTGGTACCAGCAAGTCCCAG
CTGCTGCAGTACGTGTACAACCTCGTCCCCAGGGGCCAGTACAGTCTGGGAAGGGCTCCAGTGCAGTTGGCCTC
ACTGCGTACGTAATGAAAGACCCCTGAGACAAGGCAGCTGGTCTTCAGACAGGTGCTCTTGCTCTGAGTGACAAC
GGCATCTGCTGTATCGATGAGTTCGACAAGATGAATGAAAGTACAAGATCGGTATTGCATGAAGTCATGGAACAG
CAGACTCTGTCCATTGCAAAGGCTGGGATCATCTGTGAGCTCAATGCGCGCACCTCTGTCTGGCAGCAGCAAT
CCCATTGAGTCTCAGTGAATCCTAAAAAACAACCATTTGAAAACATCCAGCTGCCTCATACTTTATTATCAAGG
TTTGATTGATCTTCTCTTGCTGGACCCCTCAGGACGAAGCCTATGACAGGCGTCTGGCTCACCACCTGGTTCGA
CTGTACTACCAGAGCGAGGAGCAGGCAGAGGAGGAGCTCCTGGACATGGCGGTGCTAAAGGACTACATTGCCTAC
GCGCACAGCACCATCATGCCGCGGCTAAGTGAGGAAGCCAGCCAGGCTCTCATCGAGGCTTATGTAGACATGAGG
AAGATTGGCAGTAGCCGGGGAATGGTTTCTGCATACCCTCGACAGCTAGAGTCATTAATCCGCTTAGCAGAAGCC
CATGCTAAAGTAAGATTGTCTAACAAAGTTGAAGCCATTGATGTGGAAGAGGCCAAACGCCTCCATCGGGAAGCT
CTGAAGCAGTCTGCAACTGATCCCCGAGTGGCATCGTGGACATATCTATTCTTACTACGGGGATGAGTGCCACC
TCTCGTAAACGGAAGAAGATTAGCTGAAGCATTGAAAAGCTTATTTTATCTAAGGGCAAAACACCAGCTCTA
AAATACCAGCAACTTTTTGAAGATATTGCGGGACAATCTGACATAGCAATTACTAAAGATATGTTGAAGAAGCA
CTGCGTGCCCTGGCAGATGATGATTTCCCTGACAGTGACTGGGAAGACCGTGCGCTTGCTCTGAAGCCTTGAGC
AAGGAAGGCTCCCTGCATGTCTGCTTGCTGCACGCCACATGGGTGTGGTCTGCATCTCAGTTGGCCGCCATCAG
TGTAATAGAGCTTAAAGTCATGGTTTGGCTGCATAAAAAATTTCTAACTTGGGTCAATATTTGTAGTGAAGTA
TCTGTTTTTCAATTTTTTTCAGTTATAAAATAAAATACTATGCTGGCCGGGCGGCTGGCTCACACCTGTAATCCC
AGCATTGTTGGGAGGCCAATGTGGGTGGATCATGAGGTCAAGAGTTCAGAGCCAGCCTAGCCAAGATGGTGAAACC
CCGTCTCTAGTAAAGATAACAAAAAATTAGCTGGGCTTGATGGCATGCGCTGTAATCCAGCTACTCGGGAGGT
TGAGGCAGGAGAATCGCTTAAACCCAGGCGCAGAGGTTGCAGTGAGCCAAGATCGCGCCACTGCACTCCAGCCT
CAGCAATAGAGTGAGACTGTCTC

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FIGURE 2545

MSSPASTPSRRGSRRGRATPAQTPRSEDARSSPSQRRRGEDSTSTGELQPMPTSPGVLDLQSPAAQDVLFSPPQM
HSSAIPLDVDFVSSPLTYGTPSSRVEGTPRSVGRGTPVRQRPDLGSAQKGLQVDLQSDGAAEDIVASEQSLGQKL
VIWGTIDVNAACKENFQRFLQRFIDPLAKEEENVGIDITEPLYMQRLGEINVIGEPFLNVNCEHIKSFDKNLYRQ
LISYPQEVIPTFDMAVNEIFFDRYPDSILEHQIQVRPFNALKTKNMRNLNPEDIDQLITISGMVIRTSQLIPEMQ
EAFFQCQVCAHTTRVEMDRGRIAEPSCVGRCHTTHSMALIHNRSLFSDKQMIKLQESPEDMPAGQTPHTVILFAH
NDLVDKVQPGDRVNVTGIYRAVPIRVNPRVSNVKSVMYKTHIDVIHYRKTDKRLHGLDEEAEQKLFSEKRVELLK
ELSRKPDYERLASALAPSIYEHEDIKKGILLQLFGGTRKDFSHTRGKFRAEINILLCGDPGTSKSQLLYVYN
LVPRGQYTSKGSSAVGLTAYVMKDPETRQLVLQTAGLVLSDNIGCCIDEFDKMNESTRSVLHEVMEQQTLSIAK
AGIICQLNARTSVLAAANPIESQWNPKKTTIENIQLPHTLLSRFDLIFLLLDPODEAYDRRLAHLVALYYQSEE
QAEELLDMAVLKDYIAYAHSTIMPRLSEEASQALIEAYVDMRKIGSSRGMVSAYPRQLESRLRLAEAHAKVRLS
NKVEAIDVEEAKRLHREALKQSATDPRTGIVDISILTTGMSATSRKRKEELAEALKKLILSKGKTPALKYQQLFE
DIRGQSDIAITKDMFEEALRALADDDFLTVTGKTVRL

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FIGURE 2546

CGCGTCGGGCTGCAGGAGAAGATGGCGGTCTCCACAGGAGTTAAAGTTCCTCGTAATTTTCGCTTGTTGGAAGAA
CTTGAAGAAGGACAAAAAGGAGTAGGCGACGGTACAGTTAGCTGGGGCCTTGAAGATGATGAAGATATGACACTT
ACAAGGTGGACAGGCATGATTATTGGGCCACCAAGGACAAATTATGAAAACAGAATATATAGCCTGAAAGTAGAA
TGTGGACCTAAATACCCAGAAGCTCCTCCGTCAGTTAGATTGTAAACAAAAATTAATATGAACGGAATAAATAAT
TCCAGTGGGATGGTGGATGCCCGGAGCATACAGTGTAGCAAAATGGCAAAATTCATATAGCATTAAAGTTGTA
CTTCAAGAGCTAAGACGTCTAATGATGTCCAAAGAAAATATGAAGCTTCCACAGCCACCAGAAGGACAAACATAC
AACAATTAATTTTAGTGGATCTCAAACCTTGTCTTAAATCAACAACCTTCTACTCATGTTAATGTCTTGATTAAAT
ATCACAATGCAAAATACACATTAAAGTAAAAGAATTCCAGCTGGTAAACATGACCTGGACATTTGTAAGAATATAT
TTAATATATGTACACCCATTATGTTTTCAGGTAACAGGAGGAAAAATGCAGCACAATTTTTTTCTCTTGAAAGG
CACTGTCAATTTAAACATAAACCTGGAGTACTCGAAATAGAATTCAGGTTTACAAGATGAAAGCGTGTGGAGAAGT
GTCAGATGGCAGTGGAGCATGTGTGTTTCTAAAAAGTAAAAATCTCAAGAAAACAGAAATGGCATGCTTTACCC
ATCTTACTTAGTGAAAGAGAGCTGCAGTTGAAATTGTTTAAAAAGTAGCAGGTACAATGAATATTGTCACAGATG
TGTTAATTTTTGAAGCAATGTGGGTGCTGACTACTAGTAGTATCAAAAATATGTTTCAGGATTGTTTTGATACCTG
TATTTATAATAAAAAATGTTGGGGGGAGTTGATGAATTCCTGTAAAAGCTGTTCTTGTTGTGTACATGTAACAG
ACATGGTAAATATTTGTTTACAGTCTTTGTTTAAACAAACCATGCATTTAAGTTTAAAGTGAAGTCAACAAAAAGGA
AATAGGTGTATGGATATGTGATTTTGAGATTAAAGTTAGTCTTAAATGTAAATAAAATGTGAAACGTGTCCTCA
GAGACTGTGCCATTTCTATTATGTTGATGTATATGTACAGTACCTTGCCAGGGAAGCAAAAATTGGAATTATTGT
AGCTTTTCATGTATACACACTTTTATTTACCCATTATTTGTGTACTTCTTGTAATTATAATTTGCAGACTATTTT
AGAAAAAGAAATTATCTAGTTTAAATTTCTTTTGGACAAGGAGTCCTAGGTATTATATTTTGAGTTTGATTTTAC
CAGAAATAATAATATTTAAAAAGATCTTTCATTCTGGCAGTTCTTTTAGGATTATAGGTTGCAAATTATCCAAAT
ATATATCCCATTTTTTAAAGCATAAAAA

2768/6881
FIGURE 2547

MAVSTGVKVPNFRLLLEELEGQKGVGDGTVSWGLEDDEDMTLTRWTGMIIGPPRTNYENRIYSLKVECGPKYPE
APPSVRFVTKINMNGINNSSGMVDARSIPVLAKWQNSYSIKVVLQELRRLMMSKENMKLPQPPEGQTYNN

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FIGURE 2548

AGATGGGCCATCAACTGAGAAAGACCTTGACGAAAAGAAGAAAGAACCTGCAATTACATCGCAGAACAGCCCTGA
GGCAAGAGAAGAAAGTACTTCCAGCGGCAATGTAAGCAACAGAAAGGATGAGACAAATGCTCGAGATACTTATGT
TTCATCCTTTTCTCGGGCACCAGCACTTCTGATTCTGTGCGGTTGAAGTGTAGGGAGATGCTTGTGTCAGCTCT
TCGAACAGGGGATGACTACATTGCAATTGGAGCTGATGAGGAAGAATTAGGATCTCAAATTGAAGAAGATATATA
TCAAGAAATAAGGAATACAGACATGAAATACAAAAATAGAGTACGAAGTAGGATATCAAATCTTAAAGATGCAAA
AAATCCAAATTTAAGGAAAAATGTCTCTGTGGGAATATTCCTCCTGACTTATTTGCTAGAATGACAGCAGAGGA
AATGGCTAGTGATGAGCTGAAAGAGATGCGGAAAACTTGACCAAAGAAGCCATCAGAGAGCATCAGATGGCCAA
GACTGGTGGGACCCAGACTGACTTGTTACATGTGGCAATGTAAAAAGAAGAATTGCACTTACACACAGGTACA
AACCCGTAGTGCTGATGAACCAATGACAACATTTGTTGTCTGTAATGAATGTGGAAATCGATGGAAGTTCTGTG
AGTTGGAAGAATTGGCAAAATATCTGGACCATTAAAGAAAACGGATTTTGTAAGTAGCTTTAAAGTAGGCCAAGCA
ACTAGTTTTCTGCAAAATCAAATTTTAAAGCAACTTGGGTTAGACTTTGTTTTTGACCTAACATCCCTTCCTTA
AATGCCTTCTGTAGTTTCAGATCAGTAGGGAGACCATATAATAATTTATGGTACCTGTTTCAAAACATATTTTT
TCTGTTTTTATAAGTAAGTTGATTAATTAACCTTGGCAATATTCTTCTTTCTTAAAGGAAAAATATACCTT
AACTTTTTTTCTTTACACTGTGAAACATACACAGTAGAAATCTGTTACTCTCTGTTATTAATACATAAATGAA
AATACATTTTTTCCATATTGGCATGTAGCTACAAATATTAAAGGAGGAGAAAAGGTAATATAATTTTAGGTTTA
CCAAATATGGTGTGATTCAAATAATACTTGACCAGCTTATCTAAATGTACATAATTTGAGGTAGCTTATGAA
TTTGATTTTAATTATTATGTTCAACAAGCTTGGAAATATTAGATATTATTTTGCATCTGTAACCTAACCGTGATCATC
ATTTCTTGTAATTTCTTGATCATGTATATTACTTGTCTTAATAGATTTTGGAAACAAGACTTTATTGAGATCA
GTTTGTTTTCTCTGTTAATTTACCTGTTTGACTTTATAATGTGTTTTAGTTTTGCAGAAGAACACTGTTGTAGTT
TAGAAGGCTTTTCATAAATCCCCCTCATAGGCAAAGATGAAAACCTCCCACTATTTTTTCCCCTCTTAGGAAGAC
ATACTGGAAGAAAATGTTTAGCATCTTAGTGATGATAGCTATTGTAAACAGTTCATGACTAGATTTTGATTG
GAAATCTATACTGACCAAGGATTAATCTTAAGGATTGTATAATTCATTAAAGCTGTGGTCTTTCCATGTGGAGAC
TGATAGAAAATAATTTGTCCCAAGTCTTATTGCTGACTTTTTCTGTCATGAGTGAGATTGTTGAACAACTGA
ATATATGGGCTATAGCAAGTAGCTTTACAGTACAGATCTTACAATTAAGTTTTGCTTTTGTTAAAGTGTGTACCA
TTTTTCTGTTTGGAGTAAGACAAAAATGTTTTGACATAGGTTCCCTAGGGTACACTTGCTCTAGCATACTTTA
AAGGCCACTGTTGCAAAGTCTACATTTTATGCTGAATCTGCATTCTGTCAGGCACCCGTAGAAAGACCTCAGTAC
ATGCTTTGCACTCTCCTTTGCTCCCTTTTCCAATTTCTTATTGCATATCATTGTTGTAATACAGAAAGCAGC
ATTTTTAAATGTCCGTGTTAAGAATTGGCCCACTGGTACCAACTCACCTCTATTTTGCAGTTCATAGTTGAAGA
TTTTGTTTTATTCAAAAACAAAGTACATTTTGAAATAATGTTTCAGAATAAAATAATCTCACTTTTAAAGTGAT
CCATTTTAAAATTTGTAATTCAATAAAGTTTTTTTTGTTGTTAAACAT

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FIGURE 2549

MLAAALRTGDDYIAIGADEEELGSQIEEDIYQEIRNTDMKYKNRVRSRISNLKDAKNPNLRKNVLCGNIPDLFA
RMTAEEMASDELKEMRKNLTKEAIREHQMAKTGGTQTDLFTCGKCKKKNCTYTQVQTRSADEPMTTFVVCNECGN
RWKFC

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FIGURE 2550

CGGCGGGCGAGGGGCAGGGCAGGGCGGACCCTGGACGCGCGGGCGCGCGGAAAGGTAGCGCGGGGCCGCGTTGG
CGCGCACGCGCCTGAGCGTGCGCCCGGTGGGGCCGGCCGGGACTCGCCGCTCGCACGCCCTTGGGCCGCGGCCGG
GCGCCCGCTCTTCCTTCCGCTTGGCGCTGTGAGCTGAGGCGGTGATGTCGGGCAATAACATGTCAACCCCGCTGC
CCGCCATCGTGCCCGCCGCCCGGAAGGCCACCGCTGCGGTGATTTTCTGTCATGGATTGGGAGATACTGGGCACG
GATGGGCAGAAGCCTTTGCAGGTATCAGAAAGTTCACATATCAAAATATATCTGCCCGCATGCGCCTGTTAGGCCTG
TTACATTAAATATGAACGTGGCTATGCCTTCATGGTTTTGATATTATTGGGCTTTCACCAGATTACAGGAGGATG
AATCTGGGATTAAACAGGCAGCAGAAAATATAAAAGCTTTGATTGATCAAGAAGTGAAGAATGGCATTCCCTTCTA
ACAGAATTATTTTGGGAGGGTTTTCTCAGGGAGGAGCTTTATCTTTATATACTGCCCTTACCACACAGCAGAAAC
TGGCAGGTGTCACCTGCACTCAGTTGCTGGCTTCCACITTCGGGCTTCCCTTTCACAGGGTCCTATCGGTGGTGCTA
ATAGAGATATTTCTATTCTCCAGTGCCACGGGATTGTGACCTTTGGTTCCCTTGATGTTTGGTTCTCTTACGG
TGGAAAACTAAAAACATTGGTGAATCCAGCCAATGTGACCTTTAAAACTATGAAGGTATGATGCACAGTTTCGT
GTCAACAGGAAATGATGGATGTCAAGCAATTCATTGATAAACTCCTACCTCCAATTGATTGACGTCCTAAGAGG
CCTTGTGTAGAAGTACACCAGCATCATTGTAGTAGAGTGTAACCTTTTCCCATGCCAGTCTTCAAATTTCTAA
TGTTTTGCAGTGTTAAATGTTTTGCAAATACATGCCAATAACACAGATCAAATAATATCTCCTCATGAGAAAT
TATGATCTTTTAAAGTTTCTATACATGTATTCTTATAAGACGACCCAGGATCTACTATATTAGAATAGATGAAGCA
GGTAGCTTCTTTTTCTCAAATGTAATTCAGCAAAATAATACAGTACTGCCACCAGATTTTTTATTACATCATTT
GAAATTAGCAGTATGCTTAATGAAATTTGTTTCAGGTATAATGAGCAGTTAAGATATAAACAATTTATGCATG
CTGTGACTTAGTCTATGGATTTATTCCAAATTTGCTTAGTCACCATGCAGTGTCTGTATTTTTATATATGTGTTT
ATATATACATAATGATTATAATACATAATAAGAATGAGGTGGTATTACATTATTCCTAATAATAGGGATAATGCT
GTTTTATTGTCAAGAAAAAGTAAATCGTTCTCTTCAATTAATGGCCCTTTTATTTTGGGACCAGGCTTTATTTT
CCCTGATATTATTTCTATTTAATACTCTTTTCTCAAGAAAAAAGTTTGTTTTTCTTTATTGTCCTT
CATAGCAGGCCAAGTATTGCCCTCTCTGCAATAGACAGCTACTGTCAATACATGCTGTAATTTGACATTCTGGGT
ACAGATATAAGGTATTTAAATCTATTTATGCTTTATAGAGAAACCAGACATTAAACTTCATGCACTACTTATT
TCGAATTACTGTACCTTATCCAAATTTACACCTAGCTATTAGGATCTTCAACCCAGGTAACAGGAATAATTCTGT
GGTTTCATTTTCTGTAAACAACGAAAGAATAATTAGATCATATTCTAGTATGTTCTGAAATATCTTTAAGACT
GATCTTAAAACTAACTTCTAAGATGATTTTCATCTTCTCATAGTATAGAGTTTACTTTGTACACGTTTGAAACCA
ACTACTGTAGAAGATGAGGAATCTATTGTAATTTTTGCTTTATTTTCATCTGCCAGTGGACTTATTTGAAATTT
TCACTTTAGTCAAATTATTTTTGTATTAGTTTTGATGCAGACATAAAATAGCAATCATTTTAAATTGTCAA
ATTTCCAGATTACTGGTAAAAATTTTGAAGCAAACTTATGGGTAATAAAGGCTAGTCAGAACCCTATACCAT
AAAGTGTAGTTACCATACAGATTAATATGTAGCAAAATGTATGCTTGATATTTCTCAACTGTGTTAATTTTCT
GCTGTATTCAGCTGACCAAAACAATATTAAGAATGCATCTTTATAAATGGGTGCTAATTGATAATGGAATAAT
TTAGTAATGGACTATACAGGATGTTAATAATGAAGCCATATGTTTATGCTGGATTTAAAAATTTTAAACAATCA
TTTACTATGTCATTTTTCTTTACCTTGAAGAACATAAACTGTTATTTCACTTCTACAAATCAGCAAGATATTATT
TATGGCAAGAAATATTCATTGAAATATTGTGCTGTAACATGGGAAAGTGTAATGTTTTTCATGGTTTCTATCA
ATGTGAAATAAAATTTAATTCTGAAAA

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FIGURE 2551

MCGNNMSTPLPAIVPAARKATAAVIFLHGLGDTGHGWAEAFAGIRSSHICYICPHAPVRPVTLMNMVAMPSWFDI
IGLSPDSQEDESIGKQAAENIKALIDQEVKNGIPSNRIILGGFSQGGALSLYTALTTOQKLAGVTALSCWLPLRA
SFPQGPIGGANRDISILQCHGDCDPLVPLMFGSLTVEKLKTLVNPANVTFKTYEGMMHSSCQEMMDVKQFIDKL
LPPID

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FIGURE 2552

CTTTCCTTTTGAGGAAGACGCGGTCGTAAGGGCTGAGGATTTTGGTCCGCACGCTCCTGCTCCTGACTCACCGC
TGTTGCTCTCGCCGAGGAACAAGTCGGTCAGGAAGCCCGCGCGCAACAGCCATGGCCTTTTAAGGATACCGGAAA
AACACCCGTGGAGCCGGAGGTGGCAATTCACCGAATTCGAATCACCTAACAAGCCGCAACGTAAAAATCCTTGGA
AAAGGTGTGTGCTGACTTGATAAGAGGCGCAAAAGAAAAGAATCTCAAAGTGAAAGGACCAGTTCGAATGCCTAC
CAAGACTTTGAGAATCACTACAAGAAAACTCCTTGTTGGTGAAGGTTCTAAGACGTGGGATCGTTTCCAGATGAG
AATTCACAAGCGACTCATTGACTTGACAGTCCTTCTGAGATTGTTAAGCAGATTACTTCCATCAGTATTGAGCC
AGGAGTTGAGGTGGAAGTCACCATTGCAGATGCTTAAGTCAACTATTTTAATAAATTGATGACCAGTTGTTAAAA
AAAAAAAAAAAAA

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FIGURE 2553

MAFKDTGKTPVEPEVAIHRIRITLTSRNVKSLEKVCADLIRGAKEKNLKVKGPVRMPTKTLRITTRKTPCGEGSK
TWDRFQMRIHKRLIDLHSPSEIVKQITSISIEPGVEVEVTIADA

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FIGURE 2554

ATGATGAAGGGAACGTCATCATTGGAAAGCATTGCAATAAGACGTACACGTTATGCCACCACTGTGGCTCTAAG
GCCTACCACCTTCAGAAGTCGACCTATGGCAAATGTGGCTACACTGCCAAGCGCAAGAGAAAAGTATAACTGGAGT
ACCAAGGCTAAAAGACGAAATACCACCAGAACTGGTCAAATGAGGCACCTAAAAATTGTATACCATAGATTCAGG
CATGGATTCCGTGAAGGAACAACACCTAAACCCAAGAGGGCAGCTGTTGCAGCATCCAGTTCATCTTAA

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FIGURE 2555

MMKGTSSF¹GKHCNKTYTLCHHCGSKAYHLQKSTYGKCGYTAKRKRKYNWSTKAKRRNTT²RTGQMRHLKIVYHRFR
HGFREGTTPKPKRAAVAASSSS

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FIGURE 2556

CCCTGGTGTGATTCCATCCTGTGTGGCTGTTCTCTGGAGCAGCATTTCGTTTATCTTCGTCCGCCTTCTCTCCTAC
CTAAGTGCGTGCTGCCTCCCGATGGAAGATCTGATGGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTT
TTTGGTTGTGAACTAAAGGCTGACAAAGATTGTCACTTTAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCT
TTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGATGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAA
GGCAGCCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTTGAA
ACAACACCACCAGTAGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCAATATTAGTGGACAGCACTTAGTAGCT
GTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGATGATGAAGATGATGATGATGATGATTTTAATGAT
GAGGAAGCTGAAGAAAAAGTGCCAGTGAAGCAATCTATACAAGATACTCCAGCCAAAAATGCACAAAAGTCAAAT
CAGAATGGAAAAGACTCAAAACCATCAACACCAAGATCAAAAGGACAAGAATCTTTCAAAAAACAGGAAAAAAC
TCCTAAACACCAAAAGGACCTAGTTCTGTAAAAGACAT

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FIGURE 2557

GATTCCATCCTGTGTGGCTGTTCTCTGGAGCAGCATTTCGTTTATCTTCGTCCGCCCTTCTCTCCTACCTAAGTGCG
TGCTGCCCTCCCGATGGAAGATCTGATGGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTTTTTGGTTGT
GAACTAAAGGCTGACAAAGATTGTCACTTTAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCTTTAAGAACG
GTCAGTTTAGGGGCTGGTGCAAAGGATGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAAGGCAGCCCCA
ATTAAAGTAACACTGGCAACTTTGAAAATGCTGTACAGCCAACGGTTTCCCTTGGGGGCTTTGAAACAACACCA
CCAGTAGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAA
GATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGATCTGCCCTCGGA
GGTAGTAGCAAGCTTCCACAGAAAAAAGTAAAACTTGCTGCTGATGAAGATGATGATGATGATGAAGAAGATGAT
GATGATGAAGATGATGATGATGATTTTAAATGATGAGGAAGCTGAAGAAAAAGTGCCAGTGAAGCAATCTATACAA
GATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAAAAGACTCAAAACCATCAACACCAAGATCAAAA
GGACAAGAATCTTTCAAAAAACAGGAAAAAACTCCTAAACACCAAAAGGACCTAGTTCTGTAAAAGACATTAA
AGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTTCTCTTCCCAAAGTGGAAAGCCAAGTTCATCAATTACGTGAA
GAATTGCTTCCGGATGACTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAGTCTCTTTAAGAAAATAG
TTTAAACAATTTGTTAAAAATTTTCCGTCTTATTTTCAATTTCTGTAACAGTTGATATCTGGCTGTCCTTTTTATAA
TGCAGAGTGAGAACTTTCCCTACCGTGTGTTGATAAATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGTCCAAA
ATGCCTGTTTAGTTTTTAAAGATGGAATCCACCCTTTGCTTGGTTTTAAGTATGTATGGAATGTTATGATAGGA
CACAGTAGTAGCGGTGGTGCAGACATGGAATCGTGGGAGACAAAAATATACCTGTGAAATAAACTCAGTATTT
TAAT

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FIGURE 2558

GGAGCAGCATTTCGTTTATCTTCGTCCGCCTTCTCTCCTACCTAAGTGCGTGCTGCCTCCCGATGGAAGATCTGAT
GGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTTTTTGGTTGTGAACTAAAGGCTGACAAAGATTGTCA
CTTTAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCTTTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGA
TGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAAGGCAGCCCAATTAAAGTAACACTGGCAACTTTGAA
AATGTCTGTACAGCCAACGGTTTTCCCTTGGGGGCTTTGAAACAACACCACCAGTAGTCTTAAGGTTGAAGTGTGG
TTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGA
GGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGATCTGCCCTCGGAGGTAGTAGCAAGCTTCCACAGAAAAA
AGTAAAACTTGCTGCTGATGAAGATGATGATGATGAAGAAGATGATGATGATGAAGATGATGATGATGATT
TAATGATGAGGAAGCTGAAGAAAAAGTGCCAGTGAAGAAAGGACAAGAATCTTCAAAAAACAGGAAAAAACTC
CTAAAAACACAAAAGGACCTAGTTCTGTAAAAGACATTAAAGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTT
CTCTTCCCAAAGTGGAAGCCAAGTTCATCAATTACGTGAAGAATTGCTTCCGGATGACTGACCAAGAGGCTATTC
AAGATCTCTGGCAGTGGAGGAAGTCTTTTAAGAAAATAGTTTAAACAATTGTTAAAAATTTCCGTCTTATTT
CATTCTGTAAACAGTTGATATCTGGCTGTCCTTTTTATAATGCAGAGTGAGAACTTTCCCTACCGTGTGATAA
ATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGTCCAAAATGCCTGTTTAGTTTTTAAAGATGGAAGTCCACCC
TTTGCTTG

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FIGURE 2559

GCTCCTTCTAGGATCTCCGCCTGGTTCGGCCCCGCCTGCCTCCACTCCTGCCTCCACCATGTCCATCAGGGTGATC
CAGAAGTCCTACAAGGTGTCCACCTCTGGCCCCCGGGCCTTCAGCAGCCGCTCCTACACGAGTGGGCCCCGGTGCC
CACATCAGCTCCTCGAGCTTCTCCTGAGTGGGCAGCAGCAGCTTTTCGGGGTGGCCTGGGAGGCGGGCTATAGTGGG
GCCAGCGGCATGGGAGGCATCACCGCAGTCATGGTCAACCAGAGCCTACTGAGCCCCCTTGTCTGGAGGTGGAC
CCCAACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCACA
GACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATG
GCTCGGAGCAACATGGACAACATGTTCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAG
GAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGAGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGAT
GAGATCAATAAGCATAACAGAGATGGAGAATGAATTTGTCTCATCAAGAAGGATGTGGATGAAGCTTACATGAAC
AAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGACGAGATCAACTTCTCAGGCAGCTGTACGAAAAGGAG
ATCCGGGAGCTGCAGTCCAGATCTCGGACACATCTGTGGTGTCTCCATGGACAACAGCCGCTCCCTGGACATG
GACAGCATCATTGCTGAGGTCAAGGCACAGTACGAGGATATTGCCAACCAGGAGCGGGCTGAGGCTGAGAGCATG
TACCAGATCAAGTATGAGGAGCTGCAGAGTCTGGCTGGGAAGCACGGGGATGACCTGTGGCGCACAAAGACTGAG
ATCTCTGAGATGAACCTGGAACATCAGCCAGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCCTG
GAGGCCGCCATTGCAGATGCCGAGCAGCGTGGAGAGCTGGCCATTAAAGGATGCCAACGCCAAGTTGTCCGAGCTG
GAGGCTGCCCTGCAGCGGGCCAAGCAGGACATGGCACGGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTCAAG
CTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTGGAGGGCAAAGAGAGCCGGCTGAAGTCTGGGATG
CAGAACATGAGTATTATACGAAGACCACCAGCGGCTATGCAGGTGGTCTGAGCTCGGCCTATGGGGGCCTCACA
AGCCCCGGCCTCAGCTACGGCCTGGGCTCCAGCTTTGGCTCTGGCGCAGGCTCCAGCTCCCTCAGCCGCACCACT
TCCTCCAGGGCCGTGGTTGTGAAGAAGATCGAGACATGTGATGGGAAGCTGGTGTCCGAGTCCCTGACATCCTG
CCCAAGTGAACAGCTGTGGCAGCCCCCTCCAGCCTACCCCTCCTGCGCTGCCCCAGAGCCTGAGAAGGAGGCCAC
TATTAGGGTAGCACTGGGAACAGGAGACCCACCTGAGGCTCAGCCCTAGCCCTCAGCCCACCTGGGGAGTTTAC
TACCTGGGGACCCCCCTTGCCCATGCCTCCAGCTACAAAACAATTCAATTGCTTTTTTTTGGTCCAAAATAAAAC
CTCAGCTAGCTCTGCCAA

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FIGURE 2560

GAGTGGGCAGCAGCAGCTTTCGGGGTGGCCTGGGAGGCGGCTATAGTGGGGCCAGCGGCATGGGAGGCATCACCG
CAGTCATGGTCAACCAGAGCCTACTGAGCCCCCTGTCTGGAGGTGGACCCCAACATCCAGGCTGTGTGCACCC
AGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCACAGACAAGGTACGGTTCCTGGAGCAGC
AGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATGGCTCGGAGCAACATGGACAACATGT
TCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAGGAGAAGCTGAAGCTGGAGGCGGAGC
TTGGCAACATGCAGAGGCTGGTGGAGTCTGGGATGCAGAACATGAGTATTCATACGAAGACCACCAGCGGCTATG
CAGGTGGTCTGAGCTCGGCCTATGGGGGCCTCACAAGCCCCGGCCTCAGCTACGGCCTGGGCTCCAGCTTTGGCT
CTGGCGCAGGCTCCAGCTCCCTCAGCCGCACCAGTTCCTCCAGGGCCGTGGTTGTGAAGAAGATCGAGACATGTG
ATGGGAAGCTGGTGTCCGAGTCCTCTGACATCCTGCCCCAAGTGAACAGCTG

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FIGURE 2561

CTGGGAGGCGGCTATAGTGGGGCCAGCGGCATGGGAGGCATCACCGCAGTCATGGTCAACCAGAGCCTACTGAGC
CCCCTTGTCTGGAGGTGGACCCCAACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAAC
AACAAGTTTGCCTCCTTCACAGACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGC
CTCCTGCAGCAGCAGAAGATGGCTCGGAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGG
CAGCTGGAGACTCTGGGCCAGGAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGAGGCTGGTGGAGGAC
TTCAAGAACAAGTATGAGGATGAGATCAATAAGCATACAGAGATGGAGAATGAATTGTCTCATCAAGAAGGAT
GTGGATGAAGCTTACATGAACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGACGAGATCAACTTCCTC
AGGCAGCTGTACGAAAAGGAGATCCGGGAGCTGCAGTCCCAGATCTCGGACACATCATTGCTGAGGTCAAGGCAC
AGTACGAGGATATTGCCAACCAAAGACGGGCTGAGGCTGAGAGCATGTACCAGATCAAGTATGAGGAGCTGCAGA
GTCTGGCTGGGAAGCACGGGGATGACCTGTGGCGCACAAAGACTGAGATCTCTGAGATGAACTGGAACATCAGCC
AGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCCTGGAGGCCGCCATTGCAGATGCCGAGCAGC
GTGGAGAGCTGGCCATTAAGGATGCCAACGCCAAGTTGTCCGAGCTGGAGGCTGCCCTGCAGCGGGCCAAGCAGG
ACATGGCACGGCAGCTGCGTGAG

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FIGURE 2562

TCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAGGGCCGCGGCCACGTG
CAGCCTATTTCGCTGCACTAACTGTGCCCCGATGCATGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTTCGAAAC
ATAGTGGAGGCGCAGCAGTCAGGGACATTTCTGAAGCGAGCATCTTTGATGCCTATTTGCTTCCCAAGCTGTAT
GTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCTGCAAG
GACCGAACACCCCCACCCCAATTTAGACCTGCGGGTGCTGCCCCACGTCCCCCACCAAAGCCCATGTAAGGAGCT
GAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATTAAATGGAACTGTACTTA

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FIGURE 2563

AGGCGGGGGCGGTGCCATGACGCGCCTCGGGGGCGGTCTCGGGCGCGCACCGCTCTCTTACACTCGGGCCTCAG
AAGTCCGTGCCAGTGACCGGAGGCGGCGGCGGAGCGGTTCCCTTGTGGGCTAGAAGAATCCTGCAAAAATGTCT
CTCTATCCATCTCTCGAAGACTTGAAGGTAGACAAAGTAATTCAGGCTCAAACCTGCTTTTTCTGCAAAACCTGCC
AATCCAGCAATTTTGTGAGAAGCTTCTGCTCCTATCCCTCACGATGGAAATCTCTATCCCAGACTGTATCCAGAG
CTCTCTCAATACATGGGGCTGAGTTTAAATGAAGAAGAAATACGTGCAAATGTGGCCGTGGTTTTCTGGTGCACCA
CTTCAGGGGCAGTTGGTAGCAAGACCTTCCAGTATAAACTATATGGTGGCTCCTGTAACCTGGTAATGATGTTGGA
ATTCGTAGAGCAGAAATTAAGCAAGGGATTCTGGAAGTCATTTTGTGTAAGGATCAAGATGGAAAAATTGGACTC
AGGCTTAAATCAATAGATAATGGTATATTTGTTAGCTAGTCCAGGCTAATTCTCCAGCCTCATTGGTTGGTCTG
AGATTTGGGGACCAAGTACTTCAGATCAATGGTGAAAACCTGTGCAGGATGGAGCTCTGATAAAGCGCACAAGGTG
CTCAAACAGGCTTTTGGAGAGAAGATTACCATGACCATTCTGTGACAGGCCCTTTGAACGGACGATTACCATGCAT
AAGGATAGCACTGGACATGTTGGTTTTATCTTTAAAAATGGAAAAATAACATCCATAGTGAAAGATAGCTCTGCA
GCCAGAAATGGTCTTCTCACGGAACATAACATCTGTGAAATCAATGGACAGAATGTCATTGGATTGAAGGACTCT
CAAATTGCAGACATACTGTCAACATCTGGGACTGTAGTTACTATTACAATCATGCCTGCTTTTTATCTTTGAACAT
ATTATTAAGCGGATGGCACCAGCATTATGAAAAGCCTAATGGACCACACCATTCTGAGGTTTAAAAATTCACGG
CACCATGGAAATGTAGCTGAACGTCTCCAGTTTCCTTCTTTGGCAACTTCTGTATTATGCACGTGAAGCCTTCCC
GGAGCCAGCGAGCATATGCTGCATGAGGACCTTCTATCTTACATTATGGCTGGGAATCTTACTCTTTCATCTGA
TACCTTGTTTCAGATTTCAAAATAGTTGTAGCCTTATCCTGGTTTTACAGATGTGAAACTTTCAAGAGATTTACTG
ACTTTCCTAGAAATAGTTTCTCTACTGGAACCTGATGCTTTTATAAGCCATTGTGATTAGGATGACTGTTACAGG
CTTAGCTTTGTGTGAAAACAGTCACCTTCTCCTAGGTAATGAGTAGTGCTGTTTCATATTACTTTAGTTCTATA
GCATACTTGCATCTTTAACATGCTATCATAGTACATTTAGAATGATTGCCTTTGATTTTTTTTTTAAATCTGTG
TGTGTGTGTGTAATGCCAATTAAGAACACTGGTTTCATTCCATGTAAGCATTAAACAGTGTATGTAGGTTTCA
AGAGATTGTGATGATTCTTAAATTTTAACTACCTTCACTTAATATGCTTGAACCTGTGCCTTAACTATGTTAAGC
ATCTAGACTAAAAGCCAAAATATAATTATTGCTGCCCTTCTAAAAACCCAAAATGTAGTTCTCTATTAACCTGAA
ATGTACACTAGCCCAGAACAGTTTAAATGGTACTTACTGAGCTATAGCATAGCTGCTTAGTTGTTTTTGAGATTTT
TTAGTCAACACATAATGGAACTTCTTTCTTCTAAAAGTTGCCAGTGCCACTTTTAAGAAGTGAATCACTATAIG
TGATGTAAAAGTTATTACACTAAACAGGATAAACTTTTGACTCCCTTTTGTTCATTTGTGGATTAAAGTGGTATA
ATACTTAATTTTGGCATTGACTCTTAAGATTATGTAACCTAGCTACTTTGGGATGGTCTTAGAATAATTTTCTG
ATAACTTGTTCCTTTTCTGACTCCTCCTTGCAAACAAAATGATAGTTGACACTTTATCCTGATTTTTTCTTCT
TTTTGGTTTATGTCTATTCTAATTAATATGTATAAATAAAGTTACATTTTAGTCTGTC

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FIGURE 2564

TGCTGCCTACAGCGTCTGCTCCACCCCTGCTGCCCGCTGGAGCCCTAGTGGCTCCCTCGCTTGGCAACAACACAA
GTCTCATGGCCGAGCAGCTGCAGCTGCAGCAGTGGCAGCAGCAGGCGGACCTCCAGTCTCTACTGCCAGACCA
ACCCCTTCTCAGCCTGTCTGGGAGCAGACGGCAGTGGCGGTGGCCCCAAAGGAGGGACCGTGACAAAGGAGCCT
CAGCCAACCAGGAAAAAGGCTAAATCCACCCTTACCCTCTCTGACCCCCAAGTGGAGGGAACAGATCTTGGCCT
GAGGGGTCTTAGCCTGGAGCAGGCGCTGCGCCAGACCCTGGAGAGCCTTGACCCAGAGCCTGTGCTGAGGTCT
AGGGAGTGTGGAGAGCTCCTGGTGTCAAGGACTGAGACTGAGAGGGGAGCCCCCTCCATCTGCCCCCTTCCCTT
TCTGTACTGTCCGCTTTGTGAGGCTCAGAGGAAGGACAGTCTGCAAGCCACCTAGGAGGTCCATCCCCAGCAAA
TGTTTTGGAGGTCCCCCAGAGAGCACAGTGGGCCATGGAAGAAGTAGGGGTTGGTTGGACCTGTACATGAAA
TGGATCAGCACTTGAATGGGGAGAAGTGGAGGGAGAGGCCTGGGCCTGTCCCTGCGGGGAAATCTTTTATGGAA
GAAGGGCTGGACCACTTTACCTGCAGTTTCTTCCCAGCTCAGGCAGATGGCAGAAGGGACCCCTTGGACTTTTT
CTCGCCATCCCTCCCCCAGCGCAGGGGCACAAGCTGAGCTTGTAAAAGCCCACAGATGTTGGGGGCTGGAGAAG
GGGCAGGAGAGCATCACTCAGCCCCAGCCTCTCTAACCTCTTGGGGCCCTGTGATGGGGAGGAGACGGCAGGT
GCGGGGAGGCTCCGGCCTTCTTGGTGTCCCGCCCTTTGTTTGCACTATTGGACTTAGGAGTGCCGAGGGTGGGG
AGATGGAGCTGCCTGACTCAGTGTGTGAGTGTGTGTGCGTGCATGTGTGTGTGTGTGTGTGTATGTGTCTGTC
TGCTGTCTCTCTCTCTCTGACCCAGGGCAGCCAAGGGCAGGGATAGGTGCAGTGGTCAGATGAAGCAGTGCCA
GAGAGGGGACCTCCCAGCTCTTATTTGCACCCTCCCCACCTCACCAACTTTGGTCCCTCTCTGGGGGCATGAATG
GTTAACAAACACCAGAGCAGTACTCCAATATTGGAGAGTCACTGGGGGCACAGGGCTTTGAATCAGGGTAGTATC
CTGCCTTCCCTCCCTGACCCACATGGTCTCAGGGCCCCCTTAGGGCCCCCTACCCCACTGATAGCTTCTCTCT
TCTCTGGCACAAAGGGGAGCCCCAGGGCTTGGGGGAGGGCGTAAGGTGGGGGAAATGCCACAGCTTTTAGCAAAA
GCCTCCCTCCCAGAAATAGCCAGCTTGCTCTCTGCACCCACCCCAACCAGGGGAGGCCATAGCTGACTA
ACAAGTGTCCCTCACCACACAGCTGATTTCCCCAGTGTAGAGTGGGCAATTCTCACCTTCAAAGAGTCCCCACCT
GCCAGGCTTTTGGCACAGAGGCTAGTTGGACAGTCAGGAGAGAGCGCAGAGGCAAGGCGAAGCCGATGTCCCTG
TTTCAGTTGCACTGGGGTTGGAGCCAGGCTAGGGTTAGGGTTTTCCAGCTTCCCCAGGCTCCGGCCTTGTGAGTCTCTTT
GCAGTGTGGATTTTTCTGTGTGTTTCTGTTTGGGTTTTTGTGTTGGGTATTTTTTTTTTTTTTAATAAAGAAA
AGAAGATGTGTATATTTTTTGGCAACGAC

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FIGURE 2565

CAAGAGTCTAGGTAAGAGTTTGTTCCTGGTGGCGGAGGGTCAAGGCCACACCCGGAAACCTAGCGAGGTAAAG
TTGCGTCTTGGTTGTAGAGACGACAACCTTCTCCGCTTCCTCGGCGATGGCGGCGTCCGGGAGCGGTATGGCCCAG
AAAACCTGGGAACCTGGCCAACAACATGCAGGAAGCTCAGAGTATCGATGAAATCTACAAATACGACAAGAAACAG
CAGCAAGAAATCCTGGCGGCGAACCTTGGGACTAAGGATCACCATTACTTTAAGTACTGCAAAATCTCAGCATTG
GCTCTTCTGAAGATGGTGATGCATGCCAGATCGGGAGGCAATTTGGAAGTGATGGGTCTGATGCTAGGAAAGGTG
GATGGTGAAACCATGATCATTATGGACAGTTTGGCTTTGCCTGTGGAGGGCACTGAAACCCGAGTAAATGCTCAG
GCTGCTGCATATGAATACATGGCTGCATACATAGAAAATGCAAAACAGGTTGGCCGCCTTGAAAATGCAATCGGG
TGGTATCATAGCCACCCTGGCTATGGCTGCTGGCTTTCTGGGATTGATGTTAGTACTCAGATGCTCAATCAGCAG
TTCCAGGAACCATTTGTAGCAGTGGTGATTGATCCAACAAGAACAATATCCGCAGGGAAAGTGAATCTTGGCGCC
TTTAGGACATACCCAAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATTCCACTTAATAAA
ATAGAAGATTTTGGTGTAAGTACGCAACAATATTATGCCTTAGAAGTCTCATATTTCAAATCCTCTTTGGATCGC
AAATTGCTTGAGCTGTTGTGGAATAAATACTGGGTGAATACGTTGAGTTCTTCTAGCTTGCTTACTAATGCAGAC
TATACCACTGGTCAGGTCCTTGATTTGTCTGAAAAGTTAGAGCAGTCAGAAGCCAGCTGGGACGAGGGAGTTTC
ATGTTGGGTTTAGAAACGCATGACCGAAAATCAGAAGACAACTTGCCAAAGCTACAAGAGACAGCTGTAAACT
ACCATAGAAGCTATCCATGGATTGATGTCTCAGGTTATTAAGGATAAACTGTTAATCAAATTAACATCTCTTAA

ACAGTCTCTGAGAAGTACTTTACCTGAAAGACAGTATGAGAAAAATATTCAAGTAACACTTTAAACAGTTACC
CAAAATCTGATTAGTAAGTATAAGGTGCTCTGAAGTGTCTTAAATATTAATATCCTGTAATAAAGCTCTTTAAAT
GA

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FIGURE 2566

MAASGSGMAQKTWELANNMQEASIDEIYKYDKKQQQEILANLGTKDHHYFKYCKISALALLKMVMHARSGGNL
EVMGLMLGKVDGETMIIMDSFALPVEGTETRVNAQAAAYEYMAAYIENAKQVGRLENAIGWYHSHPGYGCWLSGI
DVSTQMLNQQFQEPFVAVVIDPTRTISAGKVNLGAFRTYPKGYKPPDEGPSEYQTIPLNKIEDFGVHCKQYYALE
VSYFKSSLDRKLELLWNKYWVNTLSSSSLLTNADYTTGQVFDLSEKLEQSEAQLGRGSFMLGLETHDRKSEDKL
AKATRDSCKTTIEAIHGLMSQVIKDKLFNQINIS

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FIGURE 2567

GGCACGAGGGGGAGGCGGGCGGAGTCGGTGAGCAGCTGGGAAGAGCAGAACCAGGGGCGGAGCACCTGCAGGCGC
GGGCGGCGGGCCCCACCATGGCGATTTCGCAAGAAAAGCACCAAGAGCCCCCAGTGCTGAGCCACGAATTCGTCTT
GCAGAATCACGCGGACATCGTCTCTGTGTGGCGATGGTCTTCTCTGCTGGGGCTCATGTTTGAGATAACGGCAAA
AGCTTCTATCATTTTTTGTACTCTTCAGTACAATGTCACCCTCCCAGCAACAGAAGAACAAGCTACTGAATCAGT
GTCCCTTTATTACTATGGCATCAAAGATTTGGCTACTGTTTTCTTCTACATGCTAGTGGCGATAATTATTCATGC
CGTAATTCAGAGTATATGTTGGATAAAATTAACAGGCGAATGCACTTCTCCAAAACAAAACACAGCAAGTTTAA
TGAATCTGGTCAGCTTAGTGCGTTCTACCTTTTTGCCTGTGTTTGGGGCACATTCTTCTCATCTCTGAAAACATA
CATCTCAGACCCCACTATCTTATGGAGGGCTTATCCCATTAACCTGATGACATTTCAAATGAAGTTTTCTACAT
ATCACAGCTGGCTTACTGGCTTCATGCTTTTTCTGAACCTCTACTCCAGAAAACCAAAAAAGAAGATATTCCTCG
TCAGCTTGTCTACATTGGTCTTTACCTCTTCCACATTGCTGGAGCTTACCTTTTGAACCTGAATCATCTAGGACT
TGTTCTTCTGGTGCTACATTATTTGTTGAATTTCTTTCCACATTTCCCGCTGTTTTATTTTAGCAATGAAAA
GTATCAGAAAGGATTTTCTGTGTGGCAGTTCTTTTGTGTTTGGGAAGACTTCTGACTTTAATTCTTTCAGTACT
GACTGTTGGTTTTGGCCTTGCAAGAGCAGAAAATCAGAAGCTGGATTTGAGTACTGGAAACTTCAATGTGTTAGC
TGTTAGAATCGCTGTTCTGGCATCCATTTGCGTTACTCAGGCATTTATGATGTGGAAGTTCATTAATTTTCAGCT
TCGAAGGTGGAGGGAACATTCIGCTTTTCAGGCACCAGCTGTGAAGAAGAAACCAACAGTAATAAGGCAGATC
TTCTAAAAAAGGAACAGAAAATGGTGTGAATGGAACATTAACCTCAAATGTAGCAGACTCTCCCCGGAATAAAAA
AGAGAAATCTTCATAATGAATTATAAACTAATTGATTAATGTCCCCAAAGAAATCTGCTTCTACTATATCTTTC
AGCATTAGAGATTTTTCTGTTCTTGAAAATACAGICTGTGCTCTTTGATTTTTGCTATTGTACGGTTTCATGCAT
TTTTTTAAAGGGCATTGAGGGGAGGATTATTGCTATGAATGAAAAAATATTTTAGCTTAGACTAAGTACCTG
CCTTCAAATAGTTTAGGGACCACCACCATATTTTATTTGTTTTTATTTTGAACATTTTCTAATGATTTGGA
GAGAAAATATTACAAAAATCCACATATCAGTGATACAATTTCTGCTGTCACCAATTTTTTATAATAGCAGA
GTGGCCTGTTCTAAGAAGGCCATATTTTTAAGTTATCTTTCAGGGTAACATGGAATACTATAAAGTTGGATGT
CAAACTTTAATATGTTTTAGTGTCTCTAATTTTTTGAATTTTTGTAGACTTTACACCTGGAAAAAAGATTT
GTAAATCACCGGAACAATTGTGTGCTTTATTTTATAGGTAGTGGTTATTAGTATTACATCCCCATTTTAAAAAC
AAAAACATAATAATGGTTACAACACGTGGAGTTTTACTAACATACATATTAATCAAAGTATATTCTTAAAGTA
CTTGTGAAGTAAATCTTCTTGTGCATTTTCAATACTTGTAACCTGGAATCAGAAAAATTTTACTATGAACAG
GAAAATCTGACATATAGCCCTTTTTGATATGTTTATTAATAATGATTCCTAATGGGGCTCATAATAAGTTTAATA
TGCACAGCATCTTAGAAAAGTTTAACTGCAAACACTTTTAAACATAATGCCTACTTGATTTATATCTATAAAA
AGACTGACAGGTAATTATATTTGGAAAACATTTAATGCACTAACCTTAAAGAAATTGAAAATTCAGGTGGATAAA
TAGTCTTACAAAAGACAATGTGCTTTATGTTATACCTATAGCTTTGGTCCCCTCTTTAATGAGAAACATTTATC
TGTATAAAACATATTTTTGGATAAAATATATATATATATATTTGTATCGCTACAGAAAGGCTCTAAAAAGCATTG
AGGAAAATATTTGGTTCCCTTTTCTATAATCATCTTTAAGATTCTTATAGCTACATTTGGTTTTATTTCATCATAT
TTACAGTATATATATTGTTCTTTTTCAGTGTTTACATCTTGTTCCTTCTCACTTGTGTCACCAGCTGTTTGT
GCCATTTTTTAGTGTAAGGTTGCAGACCTATTAGATCTGCAGTTTAAAGTTGCCATGCTGCTAGGAAATTGTCCTT
TTTCTTTCTAGCTGTTAACCTACTTCTGGAAAAAGTAGTAGCTCTCTGTAGCATTATGGAGTTTCAGTGGAACC
AAATTTTTGCCATTAAAAACTGGCATTATACTGAACATACATTGAGAAATCAATCAAAATAAAAAATTTTACTT
TCACAAAAA

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FIGURE 2568

MAIRKKSTKSPVLSHEFVLQNHADIVSCVAMVFLGLMFEITAKASIIFVTLQYNVTLPATEEQATESVSLYYY
GIKDLATVFFYMLVAIIHAVIQEYMLDKINRRMHFSKTKHSKFNESGQLSAFYLFACVWGTFILISENYISDPT
ILWRAYPHNLMTFQMKFFYISQLAYWLHAPPELYFQKTKKEDIPRQLVYIGLYLFHIAGAYLLNLNHLGLVLLVL
HYFVEFLFHIISRLFYFSNEKYQKGFSLWAVLFVLGRLLTLILSVLTVGFGLARAENQKLDFSTGNFNVLAIRIAV
LASICVTQAFMMWKFINFQLRRWREHSAPQAPAVKKKPTVTKGRSSKKGTENGVNGLTTSNVADSPRNKKEKSS

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FIGURE 2569

CCTCTTTTCCGGCTGGAACCAATGGAGGGTGTAGAAGAGAAGAAGAAGGAGGTTCCCTGCTGTGCCAGAAACCCTT
AAGAAAAAGCGAAGGAATTTGCGAGAGCTGAAGATCAAGCGCCTGAGAAAGAAGTTTGCCCAAAAGATGCTTCGA
AAGGCAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAAGGAATATAGGCAGATGTACAGAACTGAA
ATTCGAATGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCAAATTGGCGTTTGTTCATC
AGAATCAGAGGTATCAATGGAGTGAGCCCAAAGGTTGAAAGGTGTTGCAGCTTCTTCGCCITCGTCAAATCTTC
AATGGAACCTTTGTGAAGCTCAACAAGGCTTCGATTAACTGCTGAGGATTGTAGAGCCATATATTGCATGGGGG
TACCCCAATCTGAAGTCAGTAAATGAACTAATCTACAAGCGTGGTTATGGCAAAATCAATAAGAAGCGAATTGCT
TTGACAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACGGCATCATCTGCATGGAGGATTGATTGATGAG
ATCTATACTGTTGGAAAACGCTTCAAAGAGGCAAATAAATTCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGT
GGAATGAAGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTT
ATTAGAAGAATGAACTAAGGTGTCTACCATGATTATTTTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTC
AAATTGAAAAAAA

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FIGURE 2570

MEGVEEKKKEVPAVPETLKKKRRNF AELKIKRLRKKFAQKMLRKARRKLIYEKAKHYHKEYRQMYRTEIRMARMA
RKAGNFYVPAEPKLA FVIRIRGINGVSPKVRKVLQLLRRLRQIFNGTFVKLNKASINMLRIVEPYIAWGYPNLKSV
NELIYKRGYGKINKKRIALTDNALIARSLGKYGIICMEDLIHEIYTVGKRFEANNFLWPFKLSSPRGGMKKKTT
HFVEGGDAGNREDQINRLIRRMN

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FIGURE 2571

CTCGCGCCAGCAGTTTTTGGCTTTTACCCCCCATCAGTGACCAAAGACTTGACCACTCAAAGTCCAGCTCCCCAG
AACACTGCTCGACATGGAAACCAGTGTGATTGAAGGTGGATTAAATATCACTCTCACCATCCGACTACTTATGCA
TGGAAAGGAAGTTGGCAGTATCATCGGAAAGAAAGGAGAATCAGTTAAGAAGATGCGCGAGGAGAGTGGTGCACC
TATCAACATCTCAGAAGGGAATTGTCTGAGAGAATTATCACTTTTGGCTGGACCTGCTAATGCCGTCTTCAAAGG
CTTTGCTATGATCATTGACAAACTGGAAGAGGACATAAGCAGCTCTATGACCAGTAGCACAGCTGCCAGTAGACC
CCCAGTCAACCCTGAGGCTGGTGGTCCCTGCTAGTCAGTGTGGCTCTCTCATTGGAAGGTGGTTGCAAGATCAA
GGAAATACGAGAGAGTACAGGGGCTCAGGTCTAGATGGCAGGGGATATGCTACCCAACCTCAACTGAGCAGGCCAT
CACTATTGCTGGCATCCCACAATCCATCATTGAGTGTGTCAAACAGATCTGTGTGGTCATGTTGGAGTCCCCCCC
GAAGGGCGTGACCATCCCGTACCAGCTCAAGCCTTCCAGCTCTCCGGTCATCTTTGCAGGCGGTCAGGCCTATAC
CCTTCAAGGACAGTTTGCCATTCCACAGCCAGATTTGACCATGCTGCACCAGTTGGCAATGCAACAGTCTCATT
TCCCATGACGCATGGCAACACTGGATTTCAGTGCAGGTTTGGATACATCTGCTCAGACTACTTCTCATGAACCTAC
CATTCCAAACGATTTGATTGGCTGCATAATCGGGCGTCAAGGCGCCAAAATAAATGAGATCCGTCAGATGTCTGG
GGCACAGATCAAAATTGCGAACCAGTGGAAAGGATCTACTGATAGGCAGGTTACCATCACTGGATCTGCTGCCAG
CATTAGCCTGGCTCAATATCTAATCAATGTCAGGCTTTCCCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAA
TGCAGATTTATCCACAATCCCTTTCTGCTGTTCAACCACCACCCATGATCCATCTGTGTAGTTTCTGAACAGTCAG
CGATTTTCAGGTTTTAAATAGTTTGTAATTTTCAGTTTCTACACACTTTATCATCCACTCGTGATTTTTTACTTA
AAGTGTTTTAATTCCTTT

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FIGURE 2572

CCCGGCCGGCCGCCCATAGCCAGCCGTCGGTCACCTCTTCACCGCCCCCTCAGACCGCCCCAAGGTCCCCCGCC
GCCGCTCCAGCGCCGCCGCTGCAGCCGCCTCTCTTTAGTCGCCGCCATGGCGACCCCGTCCACCTCGCAGGAGCG
CCAGGACTACAACCAGGACTCAGAGGCCGCCATCAACCGCCACATCAACCTGGAGCTCTGCGCCTCCTACTTTTA
CCTGTCCATGTCTTATACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTTCTTTACCAATCT
CATGAGGAGAGGGAACATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGAT
ATCAAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTGAATGCGATGGAGTGTGCATTATATTTGGAAAAAAT
GTGAATCAGTCACTACTGGAAGTGTACAACTGGCCACTGACAAAAATGACCCCATTTGTGTGACTTCATTGAG
ACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGAGTGACCACGTGACCAACTTGCACAAGATGGGA
GCGCCCGAATCTGGCTCGGCAGAATATCTCTTCGACAAGCACACCCTGGGAGACAGTGATAATGAAAGCTAAGTC
TCAGGCTAATTTCCCCATAGCCGTGGGGTGCCTTCCTTGGTCACCAAGGCAGTGCGTGACGTTAGGGTTTCCTT
TACCTTTTCTATAAGTTGTACCAAAACATCCACTTAAGTTCTTTGATTTGTACCATTCTTCAAATAAAGAAATT
TGGTACCAAAATAATTAATAAATAAAAAATTAAAAAAA

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FIGURE 2573

MKLQNQRGGRIFLQDIKKPCDDWESGLNAMECALYLEKNVNQSLLELYKLATDKNDPHLCDFIETHYLNEQVKA
IKELSDHVTNLRKMGAPESGSAEYLFDKHTLGSDNES

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FIGURE 2574

CCGCCGCTGCAGCCGCCTCTCTTTAGTCGCCGCCATGGCGACCCCGTCCACCTCGCAGGAGCGCCAGGACTACAA
CCAGGACTCAGAGGCCGCCATCAACCGCCACATCAACCTGGAGCTCTGCGCCTCCTACTTTTACCTGTCCATGTC
TTATACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTCTTTACCAATCTCATGAGGAGAGG
GAACATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCA
GACTGTGATGACTGGGAGAGCGGGCTGAATGCGATGGAGTGTGCATTATATTGGAAAAAATGTGAATCAGTCA
CTACTGGAACTGTACAACTGGCCACTGACATGAAAGCCATCAAAGAATTGAGTGACCACGTGACCAACTTGCGC
AAGATGGGAGCGCCGAATCTGGCTCGGCAGAATATCTCTTCGACAAGCACACCCTGGGAGACAGTGATAATGAA
AGCTAAGTCTCAGGCTAATTTCCCCATAGCCGTGGGGTGCCTTCCTTGGTCACCAAGGCAGTGC GTGCACGTTAG
GGTTTCCTTTACCTTTTCTATAAGTTGTACC

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FIGURE 2575

ACCGCCGACGCAGACCCCTCTCTGCACGCCAGCCGCCCCGACCCACCATGGCCACAGTTCAGCAGCTGGAAGGA
AGATGGCGCCTGGTGGACAGCAAAGGCTTTGATGAATACATGAAGGAGCTAGGAGTGGGAATAGCTTTGCGAAAA
ATGGGCGCAATGGCCAAGCCAGATTGTATCATCACTTGTGATGGTAAAAACCTCACCATAAAAACTGAGAGCACT
TTGAAAACAACACAGTTTTCTTGTACCCCTGGGAGAGAAGTTTGAAGAAACCACAGCTGATGGCAGAAAACTCAG
ACTGCTGCAACTTTACAGATGGTGCATTGGTTCAGCATCAGGAGTGGGATGGGAAGGAAAGCACAATAACAAGA
AAATTGAAAGATGGGAAATTAGTGGTGGAGTGTGTCATGAACAATGTCACCTGTACTCGGATCTATGAAAAAGTA
GAATTAAAAATTCCATCATCACTTTGGACAGGAGTTAATTAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCT
CCATACTGTTTCTTTCTTTTTTTTTTTCATTACTGTGTTCAATTATCTTTATCATAAACATTTTACATGCAGCTAT
TTCAAAGTGTGTTGGATTAATTAGGATCATCCCTTTGGTTAATAAATAAATGTGTTTGTGCT

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FIGURE 2576

MATVQQLEGRWRLVDSKGFDEYMKELGVGIALRKMGAMAKPDCIITCDGKNLTIKTESTLKTTFSCITLGEKFEE
TTADGRKTQTVCNFTD GALVQHQEWDGKESTITRKLKDGLVVECVMNNVTCTRIYEKVE

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FIGURE 2577

GCTACCTACAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTAAAGGGAACTTTCACAATGTCC
GGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGACAGCAGGAACCCACTTAGGTGGC
ACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGTATCTACATCATAAATCTGAAG
AGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCCATTGTGCCATTGAAAACCCCTGCTGATGTCAGTGTTATA
TCATCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCTGC
TTCACCTCCTGGAACTTTCACTAACCAGATCCAGGCAGCCTTCCAGGAGCCACGACTTCTTGTTGGTTACTGACCCC
AGGGCTGACCACCAGCCTTTCACGGAGGCATCTTATGTTAACCTACCTACCATGCTCTGTGTAACACAGATTCT
CCTCTGCGCTATGTGCACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTGGTGATG
CTGGCTTGGGAAGTTCTGTGCATGCGTGGCACCATTTCCCGTGAACACCCGTGGGAGGTCATGCCTGATTTCTGC
TTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGCCTGCTGCTGAAAAGGCTGTGACCAAGGAGGAATTT
CAGGGTGAAAGGACTGCTCCAGCTCCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTG
CAGGTGCCCTCTGTGCCTATTTCAGCAGTTCCTTACTGAAGACTGCAGCGCTCAGCCTGCCACGGAAGACTGGTCT
GCAGCTCCCACTGCCCAGGCCACTGAATGGGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTGCATAGGCT
CTTAAGCAATATGGA AAAATGGTGGATGGA AAATAAACATCAGTTTCT

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FIGURE 2578

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGCFTPGTFTNQIQAAFQEPRLLVVTDPRADHQPFTEASYVNLPTIALCNT
DSPLRYVHIAIPCNNKGAHSVGLMWWMLAWEVLCMRGTISREHPWEVMPDFCFYRDP EEIEKEEQPAAEKAVTKE
EFQGERTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDCSAQFATEDWSAAPT AQATEWVGATTEWS

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FIGURE 2579

TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAGAGAGCCGTCTCAAGAG
AAGATTCTCAAAGACCAGGTGCCCACCTTAAGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAG
AACATCACCTAAGAGATTATTTTGAACAGTATGGAATAATTGAAGTGATTGAAATCATGAGTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACCATGACTCCGTGGATAAGATTGTCATTAGAAATACC
ATACTGTGAATGGCCACAAGTGTGAAGTTACAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCC
AAAGAGGTGGAAGTGGTTCTGGAACTTTGGTGGTGGTCGTGGAGGTGGTTTCAGTGGGAACGACAACCTTTGGTC
ATGGAGGAACTTCAGTGGTCATGGTGGCTTTGGTGGCAGCCATGGTGGTGGTGGATATGGTGGCAATGGGGATG
GCTATAATGGATTTGGTAATGATGGAAGCAATTTGGAGGTGGTGGGAAGCTACAAGATTTTGGCAATTACAACA
ATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCCCATGGTGGTGGAG
GCCAGTACTTTGCAAAACCACGAAACCAAGGTGGCTATGGCGGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCA
GAAGATTTTAAATTAGGAAACAAAGCTCAGCAGGAGAGGAGAGCCAGAGAAGTAACAGGGAAGCTACAGGTTACAA
CAGATTTGTGAAGTCAAGCAAGCACAGTGGTGGCAGGGCCTAGCTGCTACAAAGAAGACATGTTTATAGACAAATA
CTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTGTGACTAATTGTATAACAGGTTATTTTAGTTTCTGTTT
TGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAATGTAGATTTTTTTTTGCACCCATGCTGTTGATTGCTAA
ATGTAATAGTCTGATCGTGACACTGAATAAATGCTTTTTTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAA
GCCATCTTGGTAAATTTCCCCAACAGTGTGAAGTTAGAATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTT
ATATACAACCTGCTTGGGTGAAGAAGCCATTGCTTCGGAAACCTTGGTGTAGTTGAAGTATAGTTACTGTTGT
GACCTGAAGTTCACCATTAAAAGGGATTATCCAAGCAAAATCATGGAATTATTGGTTATAAAAGTGATTGTTGGT
ACATCCTATGCAATATATCTAAATTGAATAATGGTACCAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCA
TCCATTATCGTATGTAATCAATAAACGATTTAATTCTCTTGAA

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FIGURE 2580

MNARPHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMSDRGSGKKR
GFAFVTFDDHDSVDKIVIQKYHTVNGHNCEVTKALSKQEMASASSSQRRSGSGNFGGGRGGGFSGNDNFGHGGN
FSGHGGFGGSHGGGGYGGNGDGYNGFGNDGSNFGGGGSYKDFGNYNQSSNFGPMKGGNFGGRSSGPHGGGGQYF
AKPRNQGGYGGSSSSSSSYGSGRRF

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FIGURE 2581

AAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAA
AATTGAAGTGATTGAAATCATGAGTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGA
CCATGACTCCGTGGATAAGATTGTCATTCAGAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTACAAAAGC
CCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGG
TCGTGGAGGTGGTTTCAGTGGGAACGACAACCTTTGGTCATGGAGGAACTTCAGTGGTCAITGGTGGCTTTGGTGG
CAGCCATGGTGGTGGTGGATATGGTGGCAATGGGGATGGCTATAATGGATTGGTAATGATGGAAGCAATTTGG
AGGTGGTGGAAGCTACAAGGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAA
TTTTGGAGGCAGAAGCTCTGGCCCCATGGTGGTGGAGGCCAGTACTTTGCAAAGCAGAAGATTTTAATTAGG

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FIGURE 2582

TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCCGTCTCAAGAG
AAGATTCTCAAAGACCAGGTGCCCCTTAAGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAG
AACATCACCTAAGAGATTATTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGAGTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACCATGACTCCGTGGATAAGATTGTCATTTCAGAAATACC
ATACTGTGAATGGCCCAACTGTGAAGTTACAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCC
AAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGGTCGTGGAGGTGGTTTCAGTGGGAACGACAACCTTTGGTC
ATGGAGGAACTTCAGTGGTCATGGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTGGAGGTG
GTGGAAGCTACAAGGATTTGGCAATTACAACAATCAGTCTTCAAATTTGGACCCATGAAGGGAGGAAATTTTG
GAGGCAGAAGCTCTGGCCCCCATGGTGGTGGAGGCCAGTACTTTGCAAACCACGAAACCAAGGTGGCTATG

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FIGURE 2583

GGTAGCAGCCATTTAACTGATGTCTTTTGTATGATTGTTTCATCACTTAATAAAGGATGAATTCAGTTAATGGAG
AATCATCCTCATTTCACCAACTGATAATGCGTCTGTACGGGTACTCCAGTAGTGTCTGAAGAAAATGCCTTGT
CTCCAAATTGCACTAGTACTACTGTTGAAGATCTCCAGTTCAAGAAATACTGACTTCCTCAGAAAACAATGAAT
GTATTCCCTTCTACCACTGTCAGAAATTGGAATCTGAAGCTAGAAGTATATTAGAGCCTGACACCTCTAATTCTAGAA
GTAGTTCTGCTTTTGAAGCAGCCAAATCAAGACAGCCAGATGGGTGTATGGATCCTGTACGGCAGCAGTCTGGGA
ATGCCAACACAGAAACCTTGCCATCAGGGTGGGAACAAAGAAAAGATCCTCATGGTAGAACCTATTATGTGGATC
ATAATACTCGAACTACCACATGGGAGAGACCACAACCTTTACCTCCAGGTTGGGAAAGAAGAGTTGATGATCGTA
GAAGAGTTTATTATGTGGATCATAACACCAGAACAACAACGTGGCAGCGGCCTACCATGGAATCTGTCCGAAATT
TTGAACAGTGGCAATCTCAGCGGAACCAATTGCAGGGAGCTATGCAACAGTTTAACCAACGATACCTCTATTCCG
CTTCAATGTTAGCTGCAGAAAATGACCCTTATGGACCTTTGCCACCAGGCTGGGAAAAAAGAGTGGATTCAACAG
ACAGGGTTTACTTTGTGAATCATAACACAAAAACAACCCAGTGGGAAGATCCAAGAACTCAAGGCTTACAGAATG
AAGAACCCCTGCCAGAAGGCTGGGAAATTAGATATACTCGTGAAGGTGTAAGGTACTTTGTTGATCATAACACAA
GAACAACAACATTCAAAGATCCTCGCAATGGGAAGTCATCTGT

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FIGURE 2584

AGAGTCCGCGCCCTGCGTCCGCGACCAGGAGGATCGGACCTTCGCCCTTCGCTGTGCGCGCCGCCGCCGCCGCCGCGG
CCGTCGGGGCTATTAGTGAAAGATGGTGGATCGCTTGGCAAACAGTGAAGCAAATACTAGACGTATAAGTATAGT
GGAAACTGTTTTGGAGCAGCTGGTCAACCTTTAACTATACCTGGACGAGTTCTTATTGGAGAAGGAGTATTGAC
TAAGTTGTGCAGGAAAAAGCCCAAAGCAAGGCAGTTTTTCTTGTTAATGATATTCTTGATATATGGCAATATTGT
CATCCAGAAGAAAAATATAACAAACAACATATTATCCCCTGGAAAATGTCACIATTGATTCCATCAAAGATGA
GGGAGACTTAAGGAATGGATGGCTAATCAAGACACCAACTAAATCTTTGTCAGTTTATGCTGCCACTGCTACGGA
GAAATCAGAATGGATGAATCATATAAATAAATGTGTACTGATTACTCTCCAAAAGTGGGAAGACACCCAGTAA
TGAACATGCTGCTGTCTGGGTTCTGACTCTGAGGCAACTGTATGTATGCGTTGTCAGAAAGCAAATTACACC
TGTTAATCGTCGCCACCATTGCCGCAAATGTGGTTTTGTTGTCTGTGGGCCCTGCTCTGAAAAGAGATTCTTCT
TCCCAGCCAGTCTCTAAGCCTGTGCGGATTTGTGACTTCTGCTATGACCTGCTTTCTGCTGGGGACATGGCCAC
ATGCCAGCCTGCTAGATCAGACTCTTACAGCCAGTCATTGAAGTCTCCTTTAAATGATATGTCTGATGATGATGA
CGATGATGATAGCAGTGACTAAGGACACATTTGGGAGTATTTAATCAGGTGTGGCTATCTGAGAAATCAACTTTG
GGGGAATGTAAAGATTCTGAGCTCTCTCTCTGTTTTGTTCTAGCCATGAATTTGCCTGAGAACTTGTAACCTAT
GTGCTCAATATATTCATAGAAAGTAGGTCCCCCTGCCCTCTCCCACTCCTCACACTCTTCTACAGGGATAGGC
TTTTGCAATATATCAGATAAATTTTTGTTTCTTGTTATTTTTTAGGTTATTTTTCTTGAAGGTTGGGAAAAGA
TGTTTGTTTTAAAGGTCATGTACTACGTTGTTGTTTTCATTTCTGTATAAGTAAACTAAAAGCACAGAATGG
TGGGAAGGGGTATAATGTGGTTCATTAATAATGTAGCAGCTTTTTCTAACCATCCTGTCTAATGGTTAAGA
CACCAGTAACAAAAACACATGATTGGAAATACTTTGGCTTTTTTCATATACCTAGTGGTGCCTTATCATAATAGC
ACTGTTACATGAAATAAGCCCTACCTTCTTACTTTCTGGTTTGTGAAAAAATACACTGGTGCTCTTTGAAGTG
ATAAAATGAGTGTTTATGAATGGGTGTAATTAGGAAATACTTCTCATCTGACAGCTACAAATAACTAAGTTTGA
GGTATTTTCACTCTATATGAATAAATTTTTTCCATAAAATAGTTGTGATTATATTTTTGTTTTATATAGTCCC
AAATTATAATTGTCAAATATATATTTTTAAATTAATAAAAGTTGTCATTCTTAGGAATTTGGTTTGAAATTTATCA
GTTATACAGAATTGTCACTAGCTTAGCTTCTACCTTTAGTAAAGACATATTTTTTAGGTATAAATCTTATGCT
TTAACATTATTTCTGGATTGAAAATCTTATAAAACCCTTGAAAATAAACAGTCTCTTTTTTACAAAGCCTGTGTT
AGAGCACAGATTACCTAGGCTTGAAGATTTGGAAGAAATAATATGTAAGAATGGCCTCAAGGCAGACCACTTTA
AGTTTGGCTAGACTTCATATCGTGAAGTATTGCTATTTTCAGTGTGAACTATCTTGAATTTGCAATATAGTG
TTATATTTTATAAAGTTTTGTAAAAATCCCAAACAATATTTCTATTTTTGTAAACAATTGTATGTATAATCTGTA
TTTGAAATCATTTTGCAATCTATGAAATAGAGTAGCAATTGCTATTTCTAAATTGTGAACCTTAAAGTCAATCTA
GATTTATTTTGAGAAGTAATTGTTCACTCTTTACTTTTGAGGCAGCCATTAGGTTGAAAGTATATATTTATCATA
TAAACTTGATGCGTTTTGCACTACTCTTTCCATTTATATGCTGCAAACTACAGTCTTTGAAATATGGAAAA
TCAGCAGTCTAAAGTTTGTGTTTAAATCTAAATTTAAAAATCTTCAAATCTGAATATACCGCAAATGTCAAG
AAGTTTGATTAGTAAGTTGTGATGGAGGATTCTTTGGTATCTTACTGTTTGGTTAAGGCACTAATTTTACTTAC
CTATTAGATTTTGAAAGTATCTGAGATATACAAATCTCCCTGTAGGAAATGTGAAAGAAAAGCACAACTAACTA
GGGTTTTTTGTTCAATTTGCTTGTATGATTTTTTTGGTTTGTGTTTAAATATCAGGTGGATTTTTGTTTCTAA
GCAATATATACATAAAATCAACCAACATATCTGAAAGGATCATGAAACCTGAGAAATGCTAATGGAGATTGCT
GGTACATAGGAATCTAGCAAATTCAGGAACCAAGGGGAAATGTTGTGAGATAACATTTACATTGTCAACCTTTAT
TGACTTTGTTTTTACAATAAAAAATATTTTACAACCTT

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FIGURE 2585

MVDRLANSEANTRRISIVENCFGAAGQPLTIPGRVLIGEGVLTKLCRKKPKARQFFLFNDILVYGNIVIQKKKYN
KQHIIPLENTIDSIDEGDLRNGWLIKTPTKSFAVYAATATEKSEWMNHINKCVIDLLSKSGKTPSNEHAAVWV
PDSEATVCMRCQKAKFTPVNRHHCRKCGFVVCGPCSEKRFLPSQSSKPVRICDFCYDLLSAGDMATCQPARSD
SYSQSLKSPLNDMSDDDDDDSSD

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FIGURE 2586

GGCGGGCTCCAGGCGAGGCGGTCTGACGCTCCTGAAAACTTGC GCGCGCGCTCGCGCCACTGCGCCCGGAGCGATG

AAGATGGTTCGCGCCCTGGACGCGGTTCTACTCCAACAGCTGCTGCTTGTGCTGCCATGTCCGCACCGGCACCATC
CTGCTCGGCGTCTGGTATCTGATCATCAATGCTGTGGTACTGTTGATTTTATTGAGTGCCCTGGCTGATCCGGAT
CAGTATAACTTTTCAAGTTCTGAACTGGGAGGTGACTTTGAGTTCATGGATGATGCCAACATGTGCATTGCCATT
GCGATTTCTCTTCTCATGATCCTGATATGTGCTATGGCTACTTACGGAGCGTACAAGCAACGCGCAGCCTGGATC
ATCCCAATTCTTCTGTTACCAGATCTTTGACTTTGCCCTGAACATGTTGGTTGCAATCACTGTGCTTATTTATCCA
AACTCCATTACGGAATACATACGGCAACTGCCTCCTAATTTTCCCTACAGAGATGATGTCATGTCAGTGAATCCT
ACCTGTTTGGTCCCTTATTATTCTTCTGTTTATTAGCATTATCTTGACTTTTAAGGGTTACTTGATTAGCTGTGTT
TGGAAGTGTACCGATACATCAATGGTAGGAACCTCTGATGTCTGCTGTTTATGTTACCAGCAATGACACTACG
GTGCTGCTACCCCGTATGATGATGCCACTGTGAATGGTGTGCTGCCAAGGAGCCACCGCCACCTTACGTGTCTGCC
TAAGCCTTCAAGTGGGCGGAGCTGAGGGCAGCAGCTTGACTTTGCAGACATCTGAGCAATAGTTCTGTTATTTCA
CTTTTGCCATGAGCCTCTCTGAGCTTGTTTGTGTGCTGAAATGCTACTTTTAAAATTTAGATGTTAGATTGAAAA
CTGTAGTTTTCAACATATGCTTTTCTGGAACACTGTGATAGATTAACTGTAGAATTTCTTCTGTACGATTGGGGA
TATAATGGGCTTCACTAACCTTCCCTAGGCATTGAAACTTCCCCAAATCTGATGGACCTAGAAGTCTGCTTTTG
TACCTGCTGGGCCCCAAAGTTGGGCATTTTTCTCTCTGTTCCCTCTCTTTTGAAAATGTAAAAATAAACCAAAAA
TAGACAACTTTTCTTCAGCCATTCCAGCATAGAGAACAAAACCTTATGGAAACAGGAATGTCAATTGTGTAATC
ATTGTTCTAATTAGGTAAATAGAAGTCCTTATGTATGTGTTACAAGAATTTCCCCCACAACATCCTTTATGACTG
AAGTTCAATGACAGTTTGTGTTTGGTGGTAAAGGATTTTCTCCATGGCCTGAATTAAGACCATTAGAAAGCACCA
GGCCGTGGGAGCAGTGACCATCTGCTGACTGTTCTTGTGGATCTTGTGTCCAGGGACATGGGGTGACATGCCTCG
TATGTGTTAGAGGGTGAATGGATGTGTTTGGCGCTGCATGGGATCTGGTGCCCTCTTCTCTCTGGATTACATC
CCCACCCAGGGCCCGCTTTTACTAAGTGTCTGCCCTAGATTGGTTCAAGGAGGTATCCAACCTGACTTTATCAA
GTGGAATTGGGATATATTTGATATACTTCTGCCTAACAAACATGGAAAAGGGTTTTCTTTTCCCTGCAAGCTACAT
CCTACTGCTTTGAACTTCCAAGTATGTCTAGTCACCTTTTAAAATGTAAACATTTTCAGAAAAATGAGGATTGCC
TTCCTTGATGCGCTTTTTACCTTGACTACCTGAATTGCAAGGGATTTTATATATTCATATGTTACAAAGTCAG
CAACTCTCCTGTTGGTTCATTATTGAATGTGCTGTAAATTAAGTTGTTTGCAATTAACAAGGTTTGCCAC

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FIGURE 2587

MKMVAPWTRFYSNSCCLCCHVRTGTILLGVWYLIINAVVLLILLSALADPDQYNFSSSELGGDFEFMDDANMCIA
IAISLLMILICAMATYGAYKQRAAWIIPFFCYQIFDFALNMLVAITVLIYPNSIQEYIRQLPPNFPYRDDVMSVN
PTCLVLIILLFISIILTFKGYLISCVWNCYRYINGRNSDVLVYVTSNDTTVLLPPYDDATVNGAAKEPPPPYVS
A

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FIGURE 2588

CCTTTCTCGTTCCCGGCCATCTTAGCGGCTGCTGTTGGTTGGGGGCCGTCCCGCTCCTAAGGCAGGAAGATGGT
GGCCGCAAAGAAGACGAAAAAGTCGCTGGAGTCGATCAACTCTAGGCTCCAACTCGTTATGAAAAGTGGGAAGTA
CGTCCTGGGGTACAAGCAGACTCTGAAGATGATCAGACAAGGCAAAGCGAAATTGGTCATTCTCGCTAACAACTG
CCCAGCTTTGAGGAAATCTGAAATAGAGTACTATGCTATGTTGGCTAAAACCTGGTGTCCTACTACAGTGGCAA
TAATATTGAACTGGGCACAGCATGCGGAAAATACTACAGAGTGTGCACACTGGCTATCATTGATCCAGGTGACTC
TGACATCATTAGAAGCATGCCAGAACAGACTGGTGAAAAGTAAACCTTTTCACCTACAAAATTCACCTGCAAAC
CTTAAACCTGCAAATTTTCCTTTAATAAAAATTTGCTTGTTTTAAAAACATTGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2589

MVAAKKT KKSLESINSRLQLVMKSGKYVLGYKQTLKMIROGKAKLVILANNC PALRKSEIEYYAMLAKTGVHHYS
GNNIELGTACGKYRVCTLAIIDPGDSDIIRSMPEQTGEK

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FIGURE 2590

GCCCACTCCCACCGCCAGCTGGAACCTGGGGACTACGACGTCCTCAAACCTTGCTTCTAGGAGATAAAAAGAA
CATCCAGTCATCGGATAAAAATGAGCTGGTTCAGAAGGCCAAACTGGCCGAGCAGGCTGAGCGATATGATGACATG
GCAGCCTGCATGAAGTCTGTAAGTGAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTTGCT
TATAAAAATGTTGTAGGAGCCCGTAGGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAGACGGAAGGTGCT
GAGAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAATTGAGACGGAGCTAAGAGATATCTGCAATGATGTA
CTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTGAAAATGAAA
GGAGATTACTACCGTTACTTGGCTGAGGTTGCCGCTGGTGATGACAAGAAAGGGATTGTGATCAGTCACAACAA
GCATACCAAGAAGCTTTTGAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACTGGGTCTGGCCCTT
AACTTCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTGCAAAGACAGCTTTTGAT
GAAGCCATTGCTGAAGTTGATACATTAAGTGAAGAGTCATACAAAGACAGCACGCTAATAATGCAATTACTGAGA
GACAACTTGACATTGTGGACATCGGATACCCAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAATTAACCG
GCCTTCCAACCTTTGTCTGCCTCATTCTAAAATTACACAGTAGACCATTGTGTCATCCATGCTGTCCCAAAATA
GTTTTTTGTTTACGATTTATGACAGGTTTATGTTACTTCTATTGAAATTTCTATATTTCCCATGTGGTTTTTATG
TTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAGTTATCTGTTTTTCATCTTGAGGTGGCCAAATATGGGG
ATGTGGAATTTTATACAAGTTATAAGTGTGGCATAGTACTTTTGGTACATTGTGGCTTCAAAGGGCCAGTG
TAAACTGCTTCCATGTCTAAGCAAAGAAAAGTGCCTACATACTGGTTTGTCTGGCGGGGAATAAAAGGGATCA
TTGGTTCCAGTCACAGGTGTAGTAATTGTGGGTACTTTAAGGTTTGGAGCACTTACAAGGCTGTGGTAGAATCAT
ACCCCATGGATACCACATATTAACCATGTATATCTGTGGAATACTCAATGTGTACACCTTTGACTACAGCTGCA
GAAGTGTTCCTTAGACAAAGTTGTGACCCATTTACTCTGGATAAGGGCAGAAACGGTTCACATTCCATTATTT
GTAAAGTTACCTGCTGTAGCTTTCATTATTTTTGCTACACTCATTTTATTTGTATTAAATGTTTTAGGCAACC
TAAGAACAAATGTAAGTAAAGATGCAGGAAAAATGAATTGCTTGGTATTCACTTTCATGTATATCAAGCAC
AGCAGTAAACAAAAACCCATGTATTTAACTTTTTTTTAGGATTTTGTCTTTTGTGATTTTTTTTTTTTTTTTT
GATACTTGCCTAACATGCATGTGCTGTAAAAATAGTTAACAGGGAATAAAGTGTGATGATGGCTAGCTTTGTTT
AATGTCTTATGAAATTTTCATGAACAATCCAAGCATAATTGTTAAGAACACGTGTATTAATTCATGTAAGTGGA
ATAAAAGTTTTATGAATGGACTTTTCAACTACTTCTCTACAGCTTTTCATGTAAATTAGTCTTGGTTCTGAAAC
TTCTCTAAAGGAAATTGTACATTTTTTGAATTTATTCCTTATTCCTCTTGGCAGCTAATGGGCTCTTACCAAG
TTTAAACACAAAATTTATCATAACAAAAATACTACTAATAATACTACTGTTTCCATGTCCCATGATCCCTCTCT
TCCTCCCCACCTGAAAAAATGAGTTCCTATTTTTCTGGGAGAGGGGGGATTGATTAGAAAAAATGTAGTG
TGTTCCATTTAAATTTTTGGCATATGGCATTTTTCTAACTTAGGAAGCCACAATGTTCTTGGCCCATCATGACATT
GGGTAGCATTAACTGTAAGTTTTGTGCTTCCAAATCACTTTTTGGTTTTTAAGAATTTCTTGATACTCTTATAGC
CTGCCCTCAATTTTGATCCTTTATCTTTCTATTGTGTCAGGTGCACAAGATTACCTTCCTGTTTTAGCCTTCTGT
CTGTGCACCAACCATTTCTTACTTGGTGGCCATGTACTTGGAAAAAGGCCGCATGATCTTTCTGGCTCCACTCAGT
GTCTAAGGCACCTGCTTCCCTTGTGCTGATCCACAGACTATTTCCCTCATCCTATTTACTGCAGCAAATCTCT
CCTTAGTTGATGAGACTGTGTTTATCTCCCTTTAAAACCTACCTATCCTGAATGGTCTGTCTGCTGCCTTT
AAAATCCTTCTCTTTCTTCTCTCTATTCTCTAAATAATGAIGGGGCTAAGTTATACCCAAAGCTCACTTTAC
AAAATATTTCTCAGTACTTTGCAGAAAACACCAACAAAAATGCCATTTTAAAAAAGGTGTATTTTTCTTTTA
GAATGTAAGCTCCTCAAGAGCAGGGACAATGTTTTCTGTATGTTCTATTGTGCCTAGTACACTGTAAATGCTCAA
TAAATATTGATGATGGGAGGCAGTGAGTCTTGATGATAAGGGTGAGAACTGAAATCCC

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FIGURE 2591

MDKNELVQKAKLAEQAERYDDMAACMKSVTEQGAELSNEERNLLSVAYKNVVGARRSSWRVSSIEQKTEGAEEK
QQMAREYREKIETELRDICNDVLSLLEKFLIPNASQAESKVFLKMKGDYYRYLAEVAAGDDKKGIVDQSQQAYQ
EAFEISKKEMQPTHPIRLGLALNFSVFYYEILNSPEKACSLAKTAFDEAIAELDTLSEESYKDSTLIMQLLRDNL
TLWTSDTQGDEAEAGEGGEN

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FIGURE 2592

TCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAGGGCCGCGGCCACGTG
CAGCCTATTGCTGCACTAACTGTGCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTCGAAAC
ATAGTGGAGGCCGCAGCAGTCAGGGACATTCTGAAGTGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTGTAT
GTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGCAAG
GACCGAACACCCCCACCCCGATTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTGAGGAGCT
GAGTTCCTAAAGACTGAAGACAGGCTGTTCTCTGGAGAAAATAAAATGGAAATTGTACTT

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FIGURE 2593

CCTTCTCCCCGGCGGTTAGTGCTGAGAGTGCGGAGTGTGTGCTCCGGGCTCGGAACACACATTTATTATTAAAAA
ATCCAAAAAAATCTAAAAAAATCTTTTAAAAAACCCCAAAAAATTTACAAAAATCCGCGTCTCCCCCGCCGG
AGACTTTTATTTTTTTTCTTCTCTTTTATAAAATAACCCGGTGAAGCAGCCGAGACCGACCCGCCCGCCCGCGG
CCCCGAGCAGCTCCAAGAAGGAACCAAGAGACCGAGGCCCTTCCCGCTGCCCGGACCCGACACCGCCACCCCTCGC
TCCCCGCCGCGAGCCGGCAGCCAGCGGCAGTGGATCGACCCCGTCTGCGGGCCGTGAGTAGTTTCAATTCCGG
TTGATTTTGTCCCTCTGCGCTTGCTCCCCGCTCCCCCTCCCCCGGCTCCGGCCCCAGCCCCGGCACTCGCTCT
CCTCTCTCAGGAAAGGTCGCGGCCTGTGCCCTGCGGGCAGCCGTGCCGAGATGAACCCAGTGCCCCAGCTA
CCCCATGGCCTCGCTCTACGTGGGGGACCTCCACCCGACGTGACCGAGGCGATGCTCTACGAGAAGTTCAGCCC
GGCCGGGCCCCATCCTCTCCATCCGGGTCTGCAGGGACATGATCACCCGCCGCTCCTTGGGCTACGCGTATGTGAA
CTTCCAGCAGCCGGCGGACGCGGAGCGTGCTTTGGACACCATGAATTTTGATGTTATAAAGGGCAAGCCAGTACG
CATCATGTGGTCTCAGCGTGATCCATCACTTCGCAAAAGTGGAGTAGGCAACATATTCATTAAAAATCTGGACAA
ATCCATTGATAATAAAGCACTGTATGATACATTTCTGCTTTTGGTAACATCCTTTTCATGTAAGGTGGTTTGTGA
TGAAAATGGTTCCAAGGGCTACGGATTTGTACACTTTGAGACGCGAGGAAGCAGCTGAAAGAGCTATTGAAAAAT
GAATGGAATGCTCCTAAATGATCGAAAGTATTTGTTGGACGATTAAAGTCTCGTAAAGAACGAGAAGCTGAAC
TGGAGCTAGGGCAAAAGAATTCACCAATGTTTACATCAAGAATTTGGAGAAGACATGGATGATGAGCGCCTTAA
GGATCTCTTTGGGCCTGCCTTAAGTGTAAGTAATGACTGATGAAAGTGGAAAATCCAAAGGATTTGGATTTGT
AAGCTTTGAAAGGCATGAAGATGCACAGAAAGCTGTGGATGAGATGAACGGAAGGAGCTCAATGGAAAACAAAT
TTATGTTGGTCGAGCTCAGAAAAAGGTGGAACGGCAGACGGAACCTAAGCGCAAATTTGAACAGATGAAACAAGA
TAGGATCACCAGATACCAGGGTGTAAATCTTTATGTGAAAAATCTTGATGATGGTATTGATGATGAACGCTCTCCG
GAAAGAGTTTTCTCCATTTGGTACAATCACTAGTGCAAAGGTTATGATGGAGGGTGGTTCGAGCAAAGGGTTTGG
TTTTGTATGTTTCTCTCCCCAGAAGAAGCCACTAAAGCAGTTACAGAAATGAACGGTAGAATTGTGGCCACAAA
GCCATTGTATGTAGCTTTAGCTCAGCGCAAAGAAGAGCGCCAGGCTCACCTCACTAACAGTATATGCAGAGAAT
GGCAAGTGTACGAGCTGTTCCCAACCTGTAAATCAACCCCTACCAGCCAGCACCTCCTTCAGGTTACTTCATGGC
AGCTATCCCACAGACTCAGAACCGTGCTGCATACATCTCTCCTAGCCAAGTTGCTCAACTAAGACCAAGTCCTCG
CTGGACTGCTCAGGGTGCCAGACCTCATCCATTCCAAAATATGCCCGGTGCTATCCGCCAGCTGCTCCTAGACC
ACCATTTAGTACTATGAGACCAGCTTCTTACAGGTTCCACGAGTCATGTCAACACAGCGTGTGCTAACACATC
AACACAGACAATGGGTCCACGTCTGCAGCTGCAGCCGCTGCAGCTACTCCTGCTGTCCGCACCGTTCCACAGTA
TAAATATGCTGCAGGAGTTTCGCAATCCTCAGCAACATCTTAATGCACAGCCACAAGTTACAATGCAACAGCCTGC
TGTTTCATGTACAAGGTCAGGAACCTTTGACTGCTTCCATGTTGGCATCTGCCCCCTCCTCAAGAGCAAAAGCAAAT
GTTGGGTGAACGGCTGTTTCTCTTATTCAAGCCATGCACCCCTACTCTTGCTGGTAAATCACTGGCATGTTGTT
GGAGATTGATAATTCAGAACTTCTTCATATGCTCGAGTCTCCAGAGTCACTCCGTTCTAAGGTTGATGAAGCTGT
AGCTGTACTACAAGCCACCAAGCTAAAGAGGCTGCCAGAAAGCAGTTAACAGTGCCACCGGTGTTCCAACTGT
TTAAAATTGATCAGGGACCATGAAAAGAACTTGTGCTTACCAGAAAGAAAAATATCTAAACATCGAAAACTTAA
ATATTATGGAACAAAAACATTGCAAAATATAAAATAAATAAAAAAGGAAAGGAACTTTGAACCTTATGTACCG
AGCAAATGCCAGGTCTAGCAAACATAATGCTAGTCCTAGATTACTTATTGATTTAAAAACAAAAAACACAAAA
ATAGTAAATATAAAAACAAATTAATGTTTTATAGACCTGGGAAAAAGAAATTTTCAGCAAAGTACAAAAATTA
AAGCATTCCTTTCTTAATTTTGTAAATTCTTTACTGTGGAATAGCTCAGAATGTCAGTTCTGTTTAAAGTAACAG
AATTGATAACTGAGCAAGGAAACGTAATTTGGATTATAAAATCTTGCTTTAATAAAATTCCTTAAACAGTG

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FIGURE 2594

MNPSAPSYPMASLYVGD LHPDVTEAMLYEKFSPAGPILSIRVCRDMITRRSLGYAYVNFQQPADAERALDTMNFD
VIKGGKPVIMWSQRDP SLRKSGVGNIFIKNLDKSIDNKALYDTFSAFGNILSCKVVCDENGSKGYGFVHFETQEA
AERAIEKMNGMLLNDRKVFVGRFKSRKEREAE LGARAKEFTNVYIKNFGEDMDDERLKDLFGPALS VKVMTDESG
KSKGFGFVS FERHEDAQKAVDEMNGKELNGKQIYVGRAQKKVERQTELKRKFEQMKQDRITRYQGVNLYVKNLDD
GIDDERLRKEFSPFGTITSAKVMMEGGRSKGFGFVCFSSPEEATKAVTEMNGRIVATKPLYVALAQRKEERQ AHL
TNQYMQRMASVRAPNPVINPYQPAPPSGYFMAAIPQTQNRAAYYPPSQVAQLRPSRWTAQGARP HPPFQNMPGA
IRPAAPRPPFSTMRPASSQVPRVMSTQRVANTSTQTMGPRPAAAAAATPAVRTVPQYKYAAGVRNPQQHLNAQP
QVTMQQPAVHVQGGQEPLTASMLASAPPQEQKQMLGERLFPLIQAMHPTLAGKITGM LLEIDNSELHMLESPESL
RSKVDEAVAVLQAHQAKEAAQKAVNSATGVPTV

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FIGURE 2595

GCCATTGCCTTGAGTGAGTGTGCCGCTCTCCAGCCCGTTTGAACGCTCCCCGCAGCCACCGCCACCCATTGGAAT
GGCCAACAGGGGACCTGCATTATGGCCTGAGCCAGGAGGTGCAGCAGAAGATTGAGAAACAGTATGATGCAGATC
TGGAGCAGATCCTGATCCAGTGGATCACCACCCAGTGCCGAAAGGATGTGGGCCGGTCCCAGCCTGGACGCGAGA
ACTTCCAGAACTGGCTCAAGGATGGCACGGTGTTATGTGAGCTCATTAATGCACTGTACCCCAAGGGGCAGGTCC
CAGTAAAGAAGATCCAGGCCTCCACCATGGCCTTCAAGCAGATGGAGAAGATCTCTCAGTTCCTGCAAGCAGCTG
AGCGCTATGGCATTAAACACCACTGACATCTTCCAAACTGTGGACCTCTGGGAAGGAAAGACATGGCCTGTGTGC
AGCGGACGCTGAGGAATCTGGGTGGGTGGCAGTAGCCTGGGATGATGGGCTCTTCTCTGGGGATCCCAACTGGT
TCCCTAAGAAATCCAAGGAGAATCCTCGGAACCTCTCGGATAACCAGCTGCAAGAGGGCAAGAACGTGATCGGGC
TACAGATGGGGGGCATCTCAGGCAGGCATGACTGGCTACTGGATGCCACACCAGATCCTTTGATCCCACCCAGG
CCTTGCCCTGCCCTCCCACGAGTGGTTAATATACATGTAGATATATATTTTAGCAGTGACATTCCCAGAGAGCC
CCAGAGCTCTTAAGCTCCCTTCTGTGAGGGTGAGGGGTTGAGCCTGTCTATCACCTCTGAGGTGCCTGTTGGCA
GCCTCTCCCCCGTGCTTACTAATACATTCCCCTCCCCATACCCATCAAACTGGACCAACTGGCCTCTTCTTTTC
CCCTGGGATCAAAATTTAGGGGCCTCAGTCCCTCACCGCCATGCCCTGGCCTGTTCTGTCTCTCCTTTTTCCCCC
TGGCCTGTTCTGTCTCTGAGCTCTGTGCCCTCCGTTTCATTCCATGGCTGGGAGTCAGTGATGCTGCCCTCTGCCTT
CTGATGCTGGACTGGCCTTGCTTCTACAAGTATGCTTCTCCCACAGCTGTGGCTGCAGGAACCTTAATTTATAGGG
AGGAGCCTGTGGCAGCTGCTGCCCCAGCCACAGCTGCACTGACTGTGCTCACCACACATCTGGGGCAGCCTTCCC
TGGCAGAGGCCCTCATGGCTTCTCATTTTCCATTCCCTTCACTGTGGCTAAGGGGTGGGGTGAGGGGACGGAGAG
GGAGGGCTGCCTACCATGGTCTGGGGCTTGAGGAAGATGAGTTGTGCGATTTAAGAATTTGTCAATT

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FIGURE 2596

GGACTCCCTTTTCTTTGGCAAGATGGCGGAGTACGACTTGACTACTCGCATCGCGCACTTTTGGATCGGCATCT
AGTCTTTCCGCTTCTTGAATTTCTCTCTGTAAAGGAGATATATAATGAAAAGGAATTATTACAAGGTAAATTGGA
CCTTCTTAGTGATACCAACATGGTAGACTTTGCTATGGATGTATACAAAAACCTTTATTCTGATGATATTCCTCA
TGCTTTGAGAGAGAAAAGAACCACAGTGGTTGCACAACAGCTTCAGGCAGAAACAGAACCAATTGTGAA
GATGTTTGAAGATCCAGAACTACAAGGCAAATGCAGTCAACCAGGGATGGTAGGATGCTCTTTGACTACCTGGC
GGACAAGCATGGTTTTAGGCAGGAATATTTAGATACACTCTACAGATATGCAAAATTCCAGTACGAATGTGGGAA
TTACTCAGGAGCAGCAGAAATATCTTTATTTTTTTAGAGTGTCTGGTTCCAGCAACAGATAGAAATGCTTTAAGTTC
ACTCTGGGGAAAGCTGGCCTCTGAAATCTTAATGCAGAATTGGGATGCAGCCATGGAAGACCTTACACGGTTAAA
AGAGACCATAGATAATAATTCTGTGAGTTCTCCACTTCAGTCTCTTCAGCAGAGAACATGGCTCATTCACTGGTC
TCTGTTTGTCTTCAATCACCCCAAAGGTCGCGATAATATTATTGACCTCTTCCTTTATCAGCCACAATATCT
TAATGCAATTCAGACAATGTGTCCACACATTCTTCGCTATTTGACTACAGCAGTCATAACAAACAAGGATGTTTCG
AAAACGTCGGCAGGTTCTAAAAGATCTAGTTAAAGTTATTCAACAGGAGTCTTACACATATAAAGACCCAATTAC
AGAATTTGTTGAATGTTTATATGTTAACTTTGACTTTGATGGGGCTCAGAAAAAGCTGAGGGAATGTGAATCAGT
GCTTGTGAATGACTTCTTCTTGGTGGCTTGTCTTGAGGATTTTCATTGAAAATGCCCGTCTCTTCATATTTGAGAC
TTTCTGTGCGCATCCACCAGTGTATCAGCATTAAACATGTTGGCAGATAAATTGAACATGACTCCAGAAGAAGCTGA
AAGGTGGATTGTAAATTTGATTAGAAATGCAAGACTGGATGCCAAGATTGATTCTAAATTAGGTCATGTGGTTAT
GGGTAACAATGCAGTCTCACCTATCAGCAAGTGATTGAAAAGACCAAAAGCCTTTCCTTTAGAAGCCAGATGTT
GGCCATGAATATTGAGAAGAACTTAATCAGAATAGCAGGTGAGAGGCTCCTAACTGGGCAACTCAAGATTCTGG
CTTCTACTGAAGAACCATAAAGAAAAGATGAAAAAAAAAACTATCAAAGAAAGATGAAATAATAAACTATTATA
TAAAGGGTGACTTACATTTTGAAACAACATATTACGTATAAATTTGAAGAATTGAATAAAATTGATTCATT
TAAAAAAA

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FIGURE 2597

MAEYDLTTRIAHFLDRHLVFPILLEFLSVKEIYNEKELLQGKLDLLSDTNMVDFAVDVYKNLYSDDIPHALREKRT
TVVAQLKQLQAETEPIVKMFEDPETTRQMSTRDGRMLFDYLADKHGFRQEYLDTLRYAKFQYECGNYSGAAEY
LYFFRVLPATDRNALSSLWGKLASEILMQNWDAAMEDLTRLKETIDNNSVSSPLQSLQQRTWLIHWSLFVFFNH
PKGRDNIIDLFLYQPQYLNAIQTMCPHILRYLTAVITNKDVRKRRQVLKDLVKVIQQESYTYKDPITEFVECLY
VNFDFDGAQKKLRECESVLVNDFFLVACLEDFIENARLFIFETFCRIHQCISINMLADKLNMTPEEAERWIVNLI
RNARLDAKIDSKLGHVVMGNNAVSPYQQVIEKTKSLSFRSQMLAMNIEKKLNQNSRSEAPNWTQDSGFY

[illegible]

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FIGURE 2599

MASRKEGTGSTATSSSSTAGAAGKGKGKGGSGDSAVKQVQIDGLVVLKIIKHYYEEGQGTEVVQGVLLGLVVEDR
LEITNCFPPFQHTEDDADFDEVQYQMEMMRSLRHVNIDHLHVGWYQSTYYGSFVTRALLDSQFSYQHAIEESVVL
IYDPIKTAQGSLSLKAYRLTPKLMEVCCEKDF SPEALKKANITFEYMFEEVPIVIKNSHLINVL MWELEKKSABA
DKHELLSLASSNHLGKNLQLLMDRVDEMSQDIVKYNTYMRNTSKQQQKHQYQRRQENMQRQSRGEPPLEED
LSKLFKPPQPPARMDSLIAGQINTYCNIKEFTAQNLGKLFMAQALQEYNN

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FIGURE 2600A

AGTGAATCGGAAAGGAGGCGCCGGCTGTGGCGGGCGGGAGCTGCTCGGAAGCTACACCTCGCAAGGGCTCCCC
CCTTTCCCCACCCCTCCCCGACCCTTTTCCCTCCCGGGCCACCCAGCCCGCCCACTCCAGCGGAGAGCA
AGGTTTTCTTCTGTTTTCATAGCCAGCCAGAACAAATGTTCTACGCACATTTTGTTCAGTAAAAGAGGGCCTCT
GGCCAAAATTTGGCTAGCGGCCATTGGGATAAGAAGCTAACCAAGCCCATGTGTTTCAGTGTAAATTTAGAGAG
CAGCGTGGAGAGTATCATCTACCAAAGGTGAAAATGGCATTACGGACATCAGGACATCTCTTACTGGGAGTAGT
TCGAATCTATCAGGAAAGCCAAATACCTTCTTGCAGACTGTAATGAAGCATTCAATTAAGATAAAGATGGCTTT
TCGGCCAGGTGTGGTTGACCTGCCTGAGGAAAATCGGGAAGCAGCTTATAATGCCATTACTTTACCTGAAGAATT
TCATGACTTTGATCAGCCACTGCCTGACTTAGATGACATCGATGTGGCCAGCAGTTTCAGCTTGAATCAGAGTAG
AGTGGAAGAGATAACCATGAGAGAAGAAGTTGGGAACATCAGTATTTTACAAGAAAATGATTTTGGTGATTTTGG
AATGGATGATCGTGAGATAATGAGAGAAGGCAGTGCTTTTGAGGATGACGACATGTTAGTAAGCACTACTACTTC
TAACCTCCTATTAGAGTCTGAACAGAGCACCAGCAATCTGAATGAGAAAATTAACCATTTAGAAATATGAAGATCA
ATATAAGGATGATAATTTTGGAGAAGGAAATGATGGTGAAATATTAGATGACAACTTATTAGTAATAATGATGG
CGGTATCTTTGATGATCCCCCTGCCCTCTCTGAGGCAGGGGTGATGTTGCCAGAGCAGCCTGCACATGACGATAT
GGATGAGGATGATAATGTATCAATGGGTGGGCTGATAGTCTGATTGATGGATCCCGTTGAACCAATGCCAAC
CATGACTGATCAACAACACTTGTTCCAAATGAGGAAGAAGCATTGTCATTGGAGCCTATTGATATAACTGTTAA
AGAAACAAAAGCCAAGAGGAAGAGGAAGCTAATTGTTGACAGTGTCAAAGAGTTGGATAGCAAGACAATTAGAGC
CCAACCTTAGTGATTATTCAGATATTGTTACTACTTTGGATCTGGCACCAGCCACCAAGAAATTGATGATGTGGAA
AGAGACAGGAGGAGTAGAAAACTGTTTTCTTTACCTGCTCAGCCTTTGTGGAATAACAGACTACTGAAGCTCTT
TACACGCTGTCTTACACCGCTTGTAACAGAAGACCTTAGAAAAAGGAGGAAAGGAGGAGAGGCAGATAATTTGGA
TGAATTCCTCAAAGAATTTGAAAATCCAGAGGTTCTTAGAGAGGACCAGCAACAGCAGCATCAGCAGCGTGATGT
TATCGATGAGCCATTATTGAAGAGCCAAGCCGCTCCAGGAGTCAGTGATGGAGGCCAGCAGAACAAACATAGA
TGAGTCAGCTATGCCTCCACCACCACCTCAGGGAGTTAAGCGAAAAGCTGGACAAAATTGACCCAGAGCCTGTGAT
GCCTCCTCAGCAGGTAGAGCAGATGGAATACCACCTGTAGAGCTTCCCCAGAAAGACCTCCAAATATCTGTCA
GCTAATACCAGAGTTAGAATCTCTGCCAGAAAAGAGAAAGGAGAAAGAGAAAGAAAGATGATGAAGAGGA
AGAGGATGAAGATGCATCAGGGGGCGATCAAGATCAGGAAGAAAGAGATGGAAACAAAAGGACTCAGCAGATGCT
TCATGGTCTTCAGCGTGCTCTTGCTAAAACCTGGAGCTGAATCTATCAGTTTGCTTGAGTTATGTCGAAATACGAA
CAGAAAACAGCTGCCGCAAAGTTCTACAGCTTCTTGTTCTTAAAAAGCAGCAAGCTATTGAGCTGACACAGGA
AGAACCGTACAGTGACATCATCGCAACACCTGGACCAAGGTTCCATATTATATAGGAGCTAGAAGCATTATAGC
TAGTGTTTGATTCACTAGTGCTTACAAATTGCCCCCATGTGTAGGGGACACAGAACCCCTTTGAGAAAACCTTAGAT
TTTTGTCTGTACAAAGTCTTTGCCTTTTTCTTCTTCAATTTTTTCCAGTACATTAAATTTGTCAATTTTCATCTT
TGAGGGAAACTGATTAGATGGGTGTGTTTGTGTTCTGATGGAGAAAACAGCACCCCAAGGACTCAGAAGATGAT
TTTAACAGTTCAGAACAGATGTGTGCAATATTGGTGATGTAATAATGTTGAGTGGCAGTCAAAGTCATGATTT
TTATCTTAGTTCTTCACTTGCATTGAAAAGGAAAACCTGTCTGAGAAAATGCCTGACAGTTTAAATTTAAACT
ATGGTGTAAGTCTTTGACAAGAAAAAAAACAACAAACACTTCTTTCCATCAGTAACACTGGCAATCTTCCTGT
TAACCACTCTCCTTAGGGATGGTATCTGAAACAACAAATGGTCACCCTCTTGAGATTGTTTTAAGTGTAATTTCCA
TAATGAGCAGAGGTGTACGCGAAATTGTGTTATGACTGATAGCCTTCAGCTACAAAAAGATAGGACTGACCTGGT
TTAAAGTGTTCTATTTTGTAAATCATTCCATTTGAGTCTTTCTGATGAACCTGGCTATACTGAAATCTGTTATTT
TAGTGAGGCTCCAAATGAGCAAAGCTAGGCCTGATTAGAGTAGAGTGACTATTAAAAACATAACTTTCTAGGA
GCTATAAATCAAAGTTTTAAAAAGATGTTTGGATATATTGAGTATTCGATCATGAAAACAGAAATGCCCCTGC
CTACTACAAGGACAGACTGATGGGAAATTATGCACCTGGTCAACTTAGCTTTTAAAGCAGACGATGCTGTAAAAAC
TAACGGCTTCTCTGATATTTATTGTAAGTTTTAGTACTGATCTCCTTTTCCAGTGCTGCACACTCCTGGTTTGG
ACTTTAATAGCGTTGCAACGAAATCCTATATCCAGTTTCTGTAAATTTAATTGAAGAAAAATACATCCAAATAAA
GACTTTATTATTAACAGACCAGATAGCATCAGAAATCATGTGACTGTTATGATTATCAGAATATGCTTAACCTTT
TTAGGGCAAAGTTAACACTGAAAGTTCTAGCTTAAAGTGTGAAACTTTTGTGGGAAAAAAAATCACTTTTGAAA
CTCAGACTTCAGTGATACCCAATAATTTAAATTTATGTGAAATGTTTTAAATTTGTGAACCTGTAATTAAGTGT
TTAATGATTGAGTTTCTTCAGAGTGGTAATTGTATAAAATGCTATTGCAGCTTTATATTCAATATGATGTGCCT
GTAAACCAAGGAGTTTTCCCGTTTGTAAGAAAGACATTGTAGATAATTGAATGTTTGATTTTAGAAAGGTCATTA
GTTTCTTGTTACACATTTTGTAGTCTGGTTTTTGTGCTTATCGGGTTAATATTGTTCTTGAAAAATAGTTGAT

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FIGURE 2600B

GCTATGTTATGTATAACTTTTCTAATAAAAGTTGTGTTATAAGCTGT